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### **Sent Via Email Only**

April 30, 2023 File No. 16.0062961.61

Ms. Karen Vorce, District Supervisor
Grand Rapids District Office
Remediation and Redevelopment Division
Michigan Department of Environment, Great Lakes, and Energy
350 Ottawa Avenue NW, Unit 10
Grand Rapids, Michigan 49503
vorcek@michigan.gov

Re: Wolverine World Wide, Inc. Consent Decree Court Case No. 1:18-cv-00039 Filter Completion Report

Dear Ms. Vorce:

On behalf of Wolverine World Wide, Inc. (Wolverine), Rose & Westra, a Division of GZA GeoEnvironmental, Inc. (R&W/GZA), is submitting this cover letter and enclosure in response to the referenced Consent Decree, effective February 19, 2020.

This submittal includes the Filter Completion Report identified in Section 7.12(a)(i) of the Consent Decree.

If you have any questions, please contact us.

Very truly yours,

Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Loretta J. Powers, CHMM

Associate Principal

Mark A. Westra

Principal

**Enclosure: Filter Completion Report** 

 $\hbox{c:} \quad \text{Mr. Dave Latchana-Wolverine Worldwide, Inc. via email David.Latchana@wwwinc.com} \\$ 

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# FILTER COMPLETION REPORT Kent County, Michigan

### **DRAFT**

Disclaimer: This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings and conclusions expressed are those of the authors and not those of EGLE.

April 30, 2024 File No. 16.0062335.61

### **PREPARED FOR:**

Wolverine World Wide, Inc. Rockford, Michigan

### Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

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### 1.0 INTRODUCTION

On behalf of Wolverine World Wide, Inc. (Wolverine), Rose & Westra, a Division of GZA GeoEnvironmental, Inc. (R&W/GZA), prepared this Filter Completion Report (Filter CR) summarizing the activities completed associated with the *Revision to POET and POU O&M Work Plan* dated January 6, 2020 (Work Plan; **Appendix A**) and September 16, 2020 *Alternate Water Supply Management Plan Point-of-Entry Treatment Systems* (POET O&M; **Appendix B**) and associated supplemental documentation. The Work Plan was implemented as set forth in the Consent Decree No. 1:18-cv-00039-JTM-ESC, effective February 19, 2020 (CD).

Section 7.12(a)(i) of the CD indicates this Filter CR shall be submitted no later than the completion of the municipal water extensions required by Section IV. While the municipal water extensions required by Section IV are substantially complete, not all connections and associated post-construction tasks are complete as of the date of this Filter CR. Wolverine and the Michigan Department of Environment, Great Lakes, and Energy (EGLE) agreed on an April 30, 2024 due date for this Filter CR based on the substantial completion of the municipal water installation. Wolverine and EGLE also agreed March 30, 2024 would be the end date for data included in this report (i.e. status of properties will be determined on March 30, 2024).

#### The CD indicates the Filter CR:

- (A) demonstrates that Defendant has met the conditions in Paragraph 7.5;
- (B) provides for the continued implementation of the Response Activity Plan for Operation and Maintenance submitted pursuant to Paragraph 7.4(b)
- (C) provides a proposed Financial Assurance Mechanism as set forth in Section VIII (Financial Assurance) for the long-term operation of filters.

### 2.0 CONDITIONS OF CD PARAGRAPH 7.5

Section 7.5 of the CD:

### 7.5 Filters.

- (a) Defendant shall operate and maintain all whole house filters and point of use filters required to be installed, operated, or maintained pursuant to this Consent Decree in accordance with the performance objective in Paragraph 7.1(b) as set forth in Appendix L—Statement of Work for Operation and Maintenance and the Response Activity Plan in Paragraph 7.4(b).
- (b) Defendant will continue to operate and maintain all filters Defendant has installed as of the Effective Date in the Municipal Water Areas in accordance with Appendix L— Statement of Work for Operation and Maintenance and the Response Activity Plan in Paragraph 7.4(b) until municipal water is installed for that particular property owner.
- (c) In the Filter Areas, Defendant will continue operation and maintenance in accordance with Appendix L— Statement of Work for Operation and Maintenance and the Response Activity Plan in Paragraph 7.4(b) on the following filters existing as of the Effective Date:
  - (i) All filters Defendant has installed in homes with concentrations of PFOA + PFOS above 10 ppt in water coming into the home and prior to



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treatment unless and until new, applicable cleanup criteria become effective¹; and

- (ii) If new, applicable cleanup criteria become effective, all filters Defendant has installed in the Filter Areas with PFAS Compounds with concentrations above applicable cleanup criteria in water coming into the home and prior to treatment.
- (d) Wolverine will cease operation and maintenance of any filters that are not required to be operated and maintained under this Consent Decree in accordance with Appendix L— Statement of Work for Operation and Maintenance and the Response Activity Plan in Paragraph 7.4(b).
- (e) Defendant shall offer to install and maintain new filters for any residential drinking water well existing on the Effective Date in the Filter Areas if a drinking water well sample, including those samples collected pursuant to Paragraph 7.6, (i) contains concentrations of PFOA+ PFOS above 10 ppt until new applicable cleanup criteria become effective or (ii) if new applicable cleanup criteria become effective, contains PFAS Compounds at concentrations that exceed applicable criteria for PFAS Compounds.
- (f) If at any time in the future a home in the Filter Area where Defendant is operating and maintaining a filter is hooked up to a municipal water supply, Defendant may cease operation and maintenance on that home's filter upon written notice to MDEQ and the homeowner.
- (g) For any filter Defendant ceases to operate and maintain pursuant to a process set forth in this Consent Decree, Defendant shall be responsible for the proper removal of the filter system and spent granular activated carbon from the home unless the homeowner agrees in writing to keep the filter system.

The Response Activity Plan for the Operation and Maintenance of Filters (so-called POET O&M) outlines the implementation of the requirements identified in CD Section 7.5. Appendix K of the CD indicates the POET O&M must be submitted within 45 days of the entry of the CD. As such, the POET O&M was due on and transmitted to EGLE on April 6, 2020. A revised, final version incorporating EGLE's review comments was submitted on September 16, 2020.

Appendix I of the CD contains a list and map of the property parcels included in the Municipal Water Areas (**Appendix C**). The Filter Areas are mapped in the CD in Appendix D (also included in **Appendix C**). Prior to the implementation of the CD, 540 point-of-entry treatment (POET) filters and 237 point of use (POU) filters were installed by Wolverine in these areas.

<sup>&</sup>lt;sup>1</sup> When established, the CD identified concentrations of PFOA+PFOS above 10 ng/l (ppt) in water coming into a home/building as the threshold for filter installation and O&M applicability. However, the CD also indicates if applicable cleanup criteria become effective, they supersede the 10 ppt PFOA+PFOS. On August 3, 2020, Michigan Part 201 drinking water criteria were implemented for 8 ppt for PFOA and 16 ppt for PFOS. These Part 201 criteria supersede the 10 ppt PFOS+PFOA established in the CD (which is referenced throughout this report).



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### 2.1 POET AND POU O&M

**Tables 1 and 2** list the POETs and POUs requiring Wolverine O&M per the CD. These tables also include POU filters which were later installed and maintained by Wolverine (see **Section 2.4**) and notes about the carbon change outs for each unit.

### **POETS**

On the Effective Date of the CD, 458 POETs required O&M by Wolverine (19 in the Filter Areas and 439 in the Municipal Water Areas). Based on concentrations of PFOS+PFOA below 10 ppt in the Filter Area, 82 POETs were no longer under Wolverine O&M.

The POET O&M was completed to include the following POET operations and maintenance as established in the Work Plan (paraphrased):

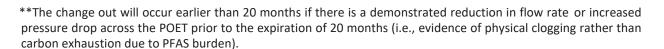
1) The pre-CD-established O&M program was modified after the Effective Date of the CD until the first carbon change out at each individual residence for (a) POETs in Municipal Water Areas, and (b) POETs in Filter Areas where influent concentrations were above 10 ppt for PFOS+PFOA:

| Pre-CD Monitoring<br>Interval | Monitoring after Effective Date of the CD until the first Carbon Change Out at Each Individual Residence  | Proposed Carbon Change Out<br>Intervals* |
|-------------------------------|---|--|
| Weekly                        | Monthly   | 6 months                                 |
| Monthly                       | Quarterly   | 12 months                                |
| Quarterly                     | Semi-Annual   | 16 months                                |
| Semi-Annual                   | None, if sampled since July 1, 2019.  If not sampled since July 1, 2019, one additional sample will be collected within the first eight months after CD is effective.     | 16 months                                |
| Annual                        | None, if sampled since July 1, 2019.  If not sampled since July 1, 2019, one additional sample will be collected within the first eight months after the CD is effective. | 20 months**                              |

<sup>\*</sup>Carbon change out is removing the lead carbon vessel(s) and moving the lag vessel(s) into the lead position and installing a new vessel(s) in the lag position(s). On a case-by-case basis carbon change outs may occur off-schedule when unique issues such as unexpected pressure drop occurs across the POET system. If a POET has been installed or a carbon change out has occurred at an individual address within six months prior to the Effective Date of the CD, that POET system will automatically be put on the carbon change out schedule and monitoring will cease. Wolverine, after consultation with and approval from EGLE, may agree to postpone a scheduled change out to accommodate the scheduled installation of municipal water for the home.







- 2) Once the initial carbon change out occurred at an individual system, the specified carbon change-out schedule began for that particular address (i.e., if a pre-CD weekly system is changed March 1, 2020 as part of the initial change out, the six-month schedule will be triggered with the next scheduled change on September 1, 2020 and so on).
- 3) UV lamp and sediment filter maintenance continued on annual and thrice yearly basis, respectively.
- 4) After each carbon change out, R&W/GZA scheduled a site visit to confirm configuration and operation of the POET systems.
- 5) Once the presumptive carbon change outs began, the following performance monitoring was conducted. The sampling was completed approximately 2 -4 weeks (or longer) after the individual carbon change out occurs.

| Pre-CD Monitoring<br>Interval | Carbon<br>Change Out<br>Intervals                                | Percentage of Random<br>Systems Sampled after<br>Granular Activated Carbon<br>(GAC) Change Out (CO)* | Ports Sampled for<br>Performance<br>Monitoring** |
|-------------------------------|--|--|--|
| Weekly                        | 6 months   | 100% first GAC CO and 25% subsequent GAC COs   | IN-MP-EF   |
| Monthly                       | Monthly  12 months  100% first GAC CO and 125 subsequent GAC COs |  | IN-MP-EF   |
| Quarterly                     | 16 months  | 10%  | IN-MP  |
| Semi-Annual                   | 16 months  | 5%   | IN-MP  |
| Annual                        | 20 months  | 5%   | IN   |

<sup>\*</sup>For the three POETs installed in the filter areas with known influent concentrations over 70 ppt PFOS+PFOA, influent and mid-point monitoring samples will be collected one time between each carbon change out.

- 6) Wolverine stopped providing POET monitoring and/or carbon changeout (as specified above) when the individual residence was connected to municipal water. Wolverine offered the POET to the homeowner if they wished to continue operating and maintaining it or removed the GAC shortly after the home was connected to municipal water, whichever the homeowner selected.
- 7) At the locations with Type II water supplies (i.e. Armory and Convent), the POET systems were maintained and monitored within their permit requirements until municipal water connections were provided.

<sup>\*\*</sup>IN= Influent, MP = Midpoint, and EF = Effluent



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8) After the Effective Date of the CD, in Filter Areas, if a parcel had not had detections of PFOS+PFOA exceeding 10 ppt, Wolverine offered to remove the POET at Wolverine's expense, or the resident could choose to keep the POET if they assumed operation and maintenance.

Sampling data from the POET monitoring program as described above has been and will continue to be reported to EGLE in both Quarterly and Annual Summary Reports as well as monthly database updates. Each quarterly report summarizes implementation including filter sampling, analytical results, carbon change outs, resident notifications, and municipal water connections. If the POET sampling and analytical results indicated detections of PFOS+PFOA in either mid-point and/or effluent samples, they were summarized and remedial actions taken to address, if applicable, were included.

Kaat's Culligan provides the UV lamp and sediment filter maintenance on the annual and thrice yearly basis, respectively. Kaat's, with assistance from GZA, continues the scheduling and implementation of these two maintenance items as well as the presumptive GAC change outs. GZA conducts routine observations after GAC change outs are completed as well as the sampling prescribed in the POET O&M as discussed above.

It should be noted, the routine maintenance, GAC change outs, system checks, and sampling are subject to property owner/resident approval and scheduling. In many cases, multiple contacts have been made with residents to request access for specific tasks and either the resident declines or is non-responsive.

### <u>POUS</u>

On the Effective Date of the CD, 147 POUs required O&M by Wolverine (30 in the Filter Areas and 117 in the Municipal Water Areas). Based on concentrations of PFOS+PFOA below 10 ppt in the Filter Areas, 73 POUs were no longer under Wolverine O&M. Additionally, 17 POUs in the Municipal Water Areas were no longer being used by the homeowners at the implementation of the CD.

Per the Work Plan and POET O&M, the following O&M was established for POUs:

- In Filter Areas at residences where influent concentrations are above 10 ppt for PFOS+PFOA as well as in Municipal Water Areas, Wolverine will continue to provide replacement cartridges for the NSF-certified POUs, as specified in the existing POU O&M Plan and the manufacturer's suggestion. Two sets of replacement cartridges will be mailed each year to each residence. Wolverine will stop providing POU replacement cartridges when an individual residence is connected to municipal water.
- In Filter areas, if a parcel is resampled and a detection of PFOS+PFOA greater than 10 ppt or other applicable PFAS criterion is identified, that resident will be offered a POU which will be maintained as stated above.
- After the Effective Date of the CD, in filter areas, if a parcel has not had detections of PFOS+PFOA exceeding 10 ppt, Wolverine will offer to remove the POU at Wolverine's expense, or the resident may choose to keep the POU if they assume operation and maintenance.

The following addresses in the Filter Areas were offered a POU filter per the requirements of the CD but either declined or did not respond to multiple contact attempts. Seven addresses have not been connected to municipal water service.





| PPN          | Address                           | Municipal Water<br>Connection Date | POU Status |
|--------------|-----------------------------------|------------------------------------|------------|
| 410625351003 | 4145 11 MILE RD NE 11/8/2023      |                                    | Offered    |
| 411016176019 | 6600 BOTANY BLUFF DR NE           | Not Applicable                     | Offered    |
| 411011375001 | 6955 CHILDSDALE AVE NE            | Not Applicable                     | Offered    |
| 411002300029 | 3535 HOUSE ST NE                  | Not Applicable                     | Offered    |
| 411001300021 | 7800 JERICHO AVE NE               | Not Applicable                     | Offered    |
| 411022277004 | 5653 MALL AVE NE                  | 7/27/2023                          | Offered    |
| 411022277002 | 5663 MALL AVE NE                  | 7/26/2023                          | Offered    |
| 411022279005 | 5748 MALL AVE NE                  | 7/27/2023                          | Offered    |
| 411001401002 | 7957 NORTHLAND DR NE              | Not Applicable                     | Declined   |
| 411001251009 | 8191 NORTHLAND DR NE              | Not Applicable                     | Offered*   |
| 410625351001 | 9391 SUMMIT AVE NE                | 1/3/2024                           | Offered    |
| 410625315002 | 9545 SUMMIT AVE NE 2/6/2024       |                                    | Offered    |
| 410625100031 | 9881 SUMMIT AVE NE                | 1/9/2024                           | Offered    |
| 410625100025 | 9740 SUMMIT AVE NE                | 4/3/2024                           | Offered    |
| 410625100044 | 9610 SUMMIT AVE NE                | 1/26/2024                          | Offered    |
| 410625100045 | 9620 SUMMIT AVE NE                | 2/20/2024                          | Offered    |
| 410625326004 | 9530 SUMMIT AVE NE                | 1/3/2024                           | Offered    |
| 410625326008 | 9380 SUMMIT AVE NE                | 2/16/2024                          | Offered    |
| 410625376003 | 9300 SUMMIT AVE NE                | 2/6/2024                           | Offered    |
| 410625100023 | 9933 SUMMIT AVE NE                | 1/22/2024                          | Offered    |
| 411023326001 | 6622 WEST RIVER DR NE             | Previously Connected               | Offered    |
| 410625100051 | 410625100051 4133 WRENS WAY CT NE |                                    | Offered    |

#### Notes:

- 1) Municipal water connection dates listed were provided through a Consolidation and Contamination Risk Reduction (C2R2) grant.
- 2) "\*" indicates owner indicated already had same filter installed that was being offered. Wolverine offered to take over O&M but have not received a response.

### 2.2 MUNICIPAL WATER AREA POET AND POU REMOVALS

Prior to or upon scheduling of municipal water connections, properties in the Municipal Water Areas where a POET and/or POU were installed received a letter informing them of their options as it pertains to removal of the filtration systems. Sample letters are included in **Appendix D**. Residents were given the following options:

- Retain the POET with future O&M at their expense. The letters indicated non-responsiveness was assumed to be acknowledgement by the resident that they would retain the POET at their expense.
- Have the POET removed.

In accordance with the CD and POET O&M, the GAC in the POETs must be properly managed during maintenance and removal. As such, the following guidelines were used regarding the handling of the GAC by Kaat's if a property retained the installed POET:

• Addresses below 10 ppt PFOS+PFOA influent: Wolverine would have no obligation to change out the carbon.



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- Addresses between 10 and 1,000 ppt PFOS+ PFOA influent: No removal of lead GAC column(s) if GAC was
  changed out within the 6 months prior to connection to municipal water. If over 6 months Wolverine offered
  to remove the lead GAC column(s) if the resident wishes to have it removed prior to them taking over O&M
  (except as provided below).
  - For any address that received an extension/deferment on a scheduled carbon change out as requested by Wolverine on 6/8/20, Wolverine offered to complete that carbon changeout before the homeowner takes over O&M.
- Addresses over 1,000 ppt PFOS + PFOA influent: Wolverine removed lead GAC column(s), regardless of length
  of use. If a homeowner refused to allow Wolverine to remove the lead GAC column(s), the homeowner was
  required to acknowledge in writing they will properly dispose of the GAC in accordance with all applicable
  local, state, and federal law.

If a home in this category received an extension/deferment on a scheduled carbon change out as requested by Wolverine on June 8, 2020, Wolverine offered to complete a carbon change out prior to the homeowner taking over O&M of the POET system.

**Table 3** summarizes the POETs and POUs in the Municipal Water Areas no longer maintained by Wolverine and the use status (if known).

### 2.3 FILTER AREAS POETS AND POUS INSTALLATIONS

Based on additional data received after implementation of the CD (i.e. locations were PFOS+PFOA concentrations exceeded 10 ppt or the then-newly developed Part 201 groundwater drinking water criteria, and a filter was not previously installed), 8 POUs were installed in the Filter Areas. These are as follows and are integrated into **Table 2** as well:

| Area Type            | PPN          | Address                | Municipal Water Connection Date | POU Install<br>Date |
|----------------------|--------------|------------------------|---------------------------------|---------------------|
| Filter Area          | 410627300006 | 2445 11 MILE RD NE     | Not Applicable                  | 9/19/2022           |
| Filter Area          | 411015427006 | 3083 RAPIDFALL CT NE   | 1/13/2023                       | 6/22/2021           |
| Filter Area          | 411022279001 | 3150 RIPLEY ST NE      | 7/12/2023                       | 6/7/2021            |
| Filter Area          | 411022279004 | 3180 RIPLEY ST NE      | 7/28/2023                       | 6/11/2021           |
| Filter Area          | 410625376001 | 9350 SUMMIT AVE NE     | 1/19/2024                       | 6/11/2021           |
| Filter Area          | 410625315003 | 9489 SUMMIT AVE NE     | 1/17/2024                       | 6/11/2021           |
| Municipal Water Area | 411005126009 | 1084 10 MILE RD NE     | 10/12/2023                      | 9/4/2020            |
| Municipal Water Area | 411002200035 | 8371 CHILDSDALE AVE NE | 2/8/2024                        | 6/30/2020           |

#### Note:

Municipal water connections for portions of the Filter Areas were provided through a C2R2 grant.

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### 2.4 FILTER AREAS POET AND POU REMOVALS

After the Effective Date of the CD, 2 POUs in the Filter Areas where known PFOS+PFOA concentration were greater than 10 ppt, were removed. These are as follows:

| Area Type   | Area Type PPN |                      | POU Removal Date |  |  |
|-------------|---------------|----------------------|------------------|--|--|
| Filter Area | 411001300021  | 7800 JERICHO AVE NE  | 8/3/2020*        |  |  |
| Filter Area | 410625301002  | 4189 TRADEWIND DR NE | 6/1/2021**       |  |  |

#### Notes:

- 1. "\*"indicates POU was scheduled to be removed before Michigan Part 201 groundwater drinking water criteria was established. Results were not greater than 10 ppt for PFOS+PFOA; however, results were greater than PFOA for the Part 201 groundwater drinking water criteria. There has been no response to a POU re-install offer.
- 2. "\*\*" indicates POU was removed by the homeowner.

As discussed, POETs and POUs in filter areas where known PFOS+PFOA concentrations were less than 10 ppt, the property owners were provided options for removal or retention of the installed filters. Sample notification letters are included as **Appendix D**. **Table 4** summarizes the POETs and POUs in the Filter Areas no longer maintained by Wolverine and the use status (if known).

Additionally, some addresses in the Filter Areas were ultimately connected to municipal water service under programs not included in the CD. This included 18 properties were POUs were in use. **Table 5** summarizes the additional Filter Areas properties where Wolverine no longer maintains POUs and the use status (if known).

### 3.0 CONTINUED IMPLEMENTATION PER PARAGRAPH 7.4(B)

Based on the status of municipal water connections, the following sections define the continued implementation of the filter O&M.

#### 3.1 MUNICIPAL WATER AREAS - POET AND POU O&M

In the Municipal Water Areas, a total of 3 POETs and 0 POUs are still in use as their respective structures have not yet been connected to municipal water. These addresses include:

| PPN          | Address                | Municipal Water<br>Connection Date | POET Status |
|--------------|------------------------|------------------------------------|-------------|
| 411004200049 | 8151 HERRINGTON AVE NE | Pending                            | Installed   |
| 411008200047 | 7546 PINE ISLAND DR NE | Pending                            | Installed   |
| 411015351044 | 2461 ROGUE RIVER RD NE | Pending                            | Installed   |

It is GZA's understanding the municipal water contractors and Plainfield Township are working with these property owners to coordinate connection to the municipal water system. Until they are connected, Wolverine will continue to operate the POETs in accordance with the POET O&M. Upon connection, these property owners will also be provided with the options for filter removal or retention and Wolverine will cease O&M.

### 3.2 FILTER AREAS - POET AND POU O&M

In the Filter Areas where known PFOS+PFOA concentrations were greater than 10 ppt or the currently established Part 201 drinking water criteria, a total of 19 POETs and 16 POUs are still in use as their respective structures have not yet been connected to municipal water. **Table 6** summarizes these addresses.



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While outlined in the POET O&M, the following summarizes the general maintenance and sampling frequency for the remaining POETs and POUs.

- All POETs remaining in the filter area under Wolverine's O&M plan will receive presumptive GAC change
  outs every 16 months as well as the routine UV lamp and sediment filter maintenance on annual and
  thrice yearly basis, respectively.
  - For POETs with known influent concentrations below 70 ppt, approximately 5% of the systems will be sampled at the influent and mid-point during the routine post-installation observations.
  - For POETs with known influent concentrations above 70 ppt, influent and mid-point samples will be collected one time between each carbon change out. If PFOS+PFOA are identified in the midpoint sample, a presumptive GAC change out will occur rather than waiting the pre-determined 16 months.
  - If equipment or components of the POETs fail, they will be repaired or replaced, at the discretion of a licensed plumber.
- The property owners with POUs remaining under Wolverine's O&M plan will continue to receive two GAC cartridge replacement sets per year. They are generally delivered in the spring of each year. If a filter breaks, it will be repaired or replaced, at the direction of a licensed plumber.

These filters will be maintained by Wolverine as required under the CD until municipal water is connected to a property.

### 4.0 FINANCIAL ASSURANCE MECHANISM (FAM)

Wolverine will implement one of the standard forms of EGLE-accepted and approved financial assurance mechanisms (e.g., a performance bond, escrow, cash, certificate of deposit, irrevocable letter of credit, corporate guarantee, Financial Test, or other equivalent security (e.g., the use of treasury shares is an appropriate FAM approved by EGLE)) in an amount to be determined in consultation with EGLE to ensure ongoing operation and maintenance of filters as required under the CD, Sections 7.12(a)(i)(C) and 8.2.

\\gzagr1\Jobs\62000\629xx\62961.xx - WWW RAP-WP\62961.61 - POET Monitoring\Completion Report - Filter\Filter-CompletionReport-Submitted-D.docx.



### **TABLES**

|  |              |                         | Former Monitoring | Municipal Water | First GAC Change Date | Second GAC Change     | Third GAC Change Date |
|--|--------------|-------------------------|-------------------|-----------------|-----------------------|-----------------------|-----------------------|
| Area Type                                  | PPN          | Address                 | Interval          | Connection Date |                       | Date                  |                       |
| Municipal Water Area                       | 411005126062 |                         | Semi-Annual       | 10/9/2023       | 6/16/2020             | 3/15/2022             | NA                    |
| Municipal Water Area                       |              | 1310 10 MILE RD NE      | Annual            | 10/16/2023      | 8/18/2020             | 3/22/2022             | NA                    |
| Municipal Water Area                       | 411005200001 |                         | Semi-Annual       | 9/18/2023       | 8/12/2020             | 2/8/2022              | 6/29/2023             |
| Municipal Water Area                       | 411005200002 |                         | Annual            | 9/18/2023       | 7/6/2020              | 2/28/2022             | NA                    |
| Municipal Water Area                       | 411005200027 |                         | Semi-Annual       | 10/19/2023      | 8/12/2020             | 3/8/2022              | 9/29/2023             |
| Municipal Water Area                       |              | 1456 10 MILE RD NE      | Semi-Annual       | 10/9/2023       | 6/29/2020             | 1/21/2022             | 5/2/2023              |
| Municipal Water Area                       | 411005200029 | 1460 10 MILE RD NE      | Semi-Annual       | 10/18/2023      | 11/18/2020            | 3/11/2022             | 6/19/2023             |
| Municipal Water Area                       | 411005200034 | 1530 10 MILE RD NE      | Annual            | 12/29/2023      | 2/2/2021              | 10/6/2023             | NA                    |
| Municipal Water Area                       | 411005200024 | 1538 10 MILE RD NE      | Semi-Annual       | 11/2/2023       | Attempted to Schedule | Attempted to Schedule | NA                    |
| Municipal Water Area                       | 411005200025 | 1542 10 MILE RD NE      | Semi-Annual       | 10/25/2023      | 7/27/2020             | 3/9/2022              | 8/10/2023             |
| Municipal Water Area                       | 411005200026 | 1546 10 MILE RD NE      | Semi-Annual       | 9/25/2023       | 7/8/2020              | 4/20/2022             | 8/14/2023             |
| Municipal Water Area                       | 411005200038 | 1550 10 MILE RD NE      | Semi-Annual       | 11/30/2023      | 6/23/2020             | 2/8/2022              | 9/28/2023             |
| Municipal Water Area                       | 411005200039 | 1590 10 MILE RD NE      | Annual            | 12/21/2023      | 7/13/2020             | 2/18/2022             | NA                    |
| Municipal Water Area                       | 411005200032 | 1602 10 MILE RD NE      | Semi-Annual       | 9/6/2023        | 9/1/2020              | 2/1/2022              | 8/10/2023             |
| Municipal Water Area                       | 411005200042 | 1622 10 MILE RD NE      | Semi-Annual       | 9/19/2023       | 2/5/2021              | 4/25/2022             | 8/31/2023             |
| Municipal Water Area                       | 411005200043 | 1656 10 MILE RD NE      | Semi-Annual       | 7/31/2023       | 8/11/2020             | 1/24/2022             | 5/2/2023              |
| Municipal Water Area                       |              | 1672 10 MILE RD NE      | Semi-Annual       | 10/12/2023      | 6/10/2020             | 3/7/2022              | 8/11/2023             |
| Municipal Water Area                       |              | 1736 10 MILE RD NE      | Annual            | 12/20/2023      | 7/7/2020              | 5/3/2022              | 10/19/2023            |
| Municipal Water Area                       |              | 1866 10 MILE RD NE      | Semi-Annual       | 9/14/2023       | 5/21/2020             | 2/21/2022             | NA                    |
| Municipal Water Area                       |              | 1884 10 MILE RD NE      | Semi-Annual       | 8/17/2023       | 5/21/2020             | 2/21/2022             | NA                    |
| Municipal Water Area                       | 411004126002 |                         | Semi-Annual       | 9/20/2023       | 6/25/2020             | 3/11/2022             | 8/14/2023             |
| Municipal Water Area                       | 411004126003 |                         | Annual            | 8/28/2023       | 8/14/2020             | 2/4/2022              | NA                    |
| Municipal Water Area                       | 411004128001 |                         | Semi-Annual       | 9/23/2022       | 7/27/2020             | 1/21/2022             | NA<br>NA              |
|  |              |                         | +                 | 10/21/2022      | 6/25/2020             | 1/21/2022             | NA<br>NA              |
| Municipal Water Area                       | 411004200012 |                         | Annual            |                 |                       | 2/2/2022              | NA<br>NA              |
| Municipal Water Area  Municipal Water Area |              | 2186 10 MILE RD NE      | Annual            | 8/4/2022        | 6/23/2020             | · ' '                 |                       |
|  |              | 1981 11 MILE RD NE      | Quarterly         | 10/3/2022       | 11/18/2020            | 3/29/2022             | NA<br>NA              |
| Municipal Water Area                       | 410628451002 |                         | Quarterly         | 9/27/2022       | 5/7/2020              | 4/22/2022             | NA<br>NA              |
| Municipal Water Area                       |              | 2029 11 MILE RD NE      | Quarterly         | 12/12/2022      | 5/11/2020             | 4/4/2022              | NA<br>                |
| Municipal Water Area                       | 410633201002 |                         | Quarterly         | 9/29/2022       | 5/8/2020              | 4/22/2022             | NA                    |
| Municipal Water Area                       |              | 2202 11 MILE RD NE      | Quarterly         | 12/8/2022       | 5/14/2020             | NA                    | NA                    |
| Municipal Water Area                       | 410628478003 |                         | Semi-Annual       | 9/19/2022       | 6/17/2020             | 4/22/2022             | NA                    |
| Municipal Water Area                       | 410628478004 |                         | Semi-Annual       | 5/17/2023       | Attempted to Schedule | Attempted to Schedule | NA                    |
| Municipal Water Area                       | 410628478002 |                         | Semi-Annual       | 6/7/2023        | 8/28/2020             | 3/18/2022             | NA                    |
| Municipal Water Area                       | 410633226004 |                         | Semi-Annual       | 2/13/2023       | 7/22/2020             | 5/20/2022             | NA                    |
| Municipal Water Area                       |              | 3060 11 MILE RD NE      | Weekly            | 9/10/2021       | 11/6/2020             | NA                    | NA                    |
| Municipal Water Area                       |              | 3100 11 MILE RD NE      | Semi-Annual       | 6/21/2021       | 9/1/2020              | NA                    | NA                    |
| Municipal Water Area                       | 410627400046 | 3155 11 MILE RD NE      | Semi-Annual       | 8/10/2021       | NA                    | NA                    | NA                    |
| Municipal Water Area                       | 410635100020 | 3246 11 MILE RD NE      | Semi-Annual       | 8/30/2021       | 7/13/2020             | NA                    | NA                    |
| Municipal Water Area                       | 410634300016 | 8500 ALGOMA AVE NE      | Semi-Annual       | 11/7/2022       | 6/22/2020             | 4/1/2022              | NA                    |
| Municipal Water Area                       | 410633426019 | 8641 ALGOMA AVE NE      | Semi-Annual       | 1/5/2023        | Attempted to Schedule | NA                    | NA                    |
| Municipal Water Area                       | 410634300029 | 8720 ALGOMA AVE NE      | Semi-Annual       | 7/13/2023       | 8/27/2020             | 5/13/2022             | NA                    |
| Municipal Water Area                       | 410633276001 | 9001 ALGOMA AVE NE      | Quarterly         | 8/8/2023        | 4/21/2020             | 3/29/2022             | NA                    |
| Municipal Water Area                       | 410633226009 | 9045 ALGOMA AVE NE      | Quarterly         | 7/10/2023       | 5/12/2020             | 6/3/2022              | NA                    |
| Municipal Water Area                       | 410633226008 | 9049 ALGOMA AVE NE      | Quarterly         | 5/25/2023       | 5/7/2020              | 4/25/2022             | NA                    |
| Municipal Water Area                       | 410633226012 | 9051 ALGOMA AVE NE      | Quarterly         | 7/5/2023        | 4/28/2020             | NA                    | NA                    |
| Municipal Water Area                       | 410633226013 | 9053 ALGOMA AVE NE      | Quarterly         | 12/1/2023       | 7/24/2020             | 7/27/2022             | NA                    |
| Municipal Water Area                       | 410633226006 | 9057 ALGOMA AVE NE      | Quarterly         | 7/10/2023       | 5/13/2020             | 3/28/2022             | NA                    |
| Municipal Water Area                       |              | 9059 ALGOMA AVE NE      | Quarterly         | 11/7/2023       | 5/18/2020             | 5/4/2022              | NA                    |
| Municipal Water Area                       |              | 9063 ALGOMA AVE NE      | Quarterly         | 6/8/2023        | 5/4/2020              | 4/20/2022             | NA                    |
| Municipal Water Area                       |              | 9247 ALGOMA AVE NE      | Semi-Annual       | 7/25/2023       | 11/18/2020            | 3/28/2022             | NA NA                 |
| Municipal Water Area                       |              | 2300 ALGOMA WOODS DR NE | Semi-Annual       | 6/2/2023        | 7/2/2020              | 5/3/2022              | NA                    |
| Municipal Water Area                       | 410633426014 |                         | Semi-Annual       | 6/6/2023        | 6/16/2020             | 4/5/2022              | NA                    |
| Municipal Water Area                       | 411016276009 |                         | Semi-Annual       | 11/10/2021      | 8/7/2020              | NA                    | NA NA                 |
| Municipal Water Area                       | 411015102003 |                         | Semi-Annual       | 9/15/2021       | 7/13/2020             | NA<br>NA              | NA<br>NA              |
| Municipal Water Area                       |              | 6813 BELMONT AVE NE     |                   | 1/31/2022       | 7/13/2020<br>NA       | NA<br>NA              | NA<br>NA              |
| Municipal Water Area                       |              | 6824 BELMONT AVE NE     | Annual            |                 | 8/28/2020             | NA<br>NA              | NA<br>NA              |
|  |              |                         | Semi-Annual       | 11/8/2021       |                       |                       |                       |
| Municipal Water Area                       |              | 6830 BELMONT AVE NE     | Quarterly         | 4/29/2022       | 5/12/2020             | 3/18/2022             | NA<br>NA              |
| Municipal Water Area                       |              | 6935 BELMONT AVE NE     | Semi-Annual       | 1/13/2022       | 8/13/2020             | NA<br>NA              | NA<br>NA              |
| Municipal Water Area                       |              | 7124 BELMONT AVE NE     | Semi-Annual       | 11/10/2021      | 7/31/2020             | NA                    | NA<br>                |
| Municipal Water Area                       |              | 7143 BELMONT AVE NE     | Semi-Annual       | 12/21/2021      | 7/1/2020              | NA NA                 | NA                    |
| Municipal Water Area                       | 411010326027 | 7190 BELMONT AVE NE     | Semi-Annual       | 12/15/2021      | 7/1/2020              | NA                    | NA                    |

| Autorage  Water Area   |                      |              |                           |                                       |            |                       |           |                       |
|--|----------------------|--------------|---------------------------|---------------------------------------|------------|-----------------------|-----------|-----------------------|
| Manicipal Water Area   4100375002   2220 BERNOT MAY NE   5emi-Annual   11/15/2020   NA   NA   NA   Manicipal Water Area   4100375001   7027 BELSTRIER AVE NE   5emi-Annual   10/16/2020   7/21/2020   NA   NA   NA   NA   NA   NA   NA   N   | Area Tyne            | PPN          | Address                   | _                                     | •          | First GAC Change Date | · ·       | Third GAC Change Date |
| Mancapal Water Area   41003330001   3239 ERLANDON AVEN NE   Semi-Annual   11/2/2020   77/23/2020   NA   NA   NA   NA   MA   NA   NA   NA   |                      |              |                           |                                       |            | 8/12/2020             |           | NA                    |
| Mannegal Water Area  | <u> </u>             |              |                           |                                       |            |                       |           |                       |
| Mannings  Water Area   41015/35/0012   6175 RESINER AVE NE   Semi-Annual   1/7/2021   247/2021   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  | +            |                           |                                       |            |                       |           |                       |
| Manufage  Water Area   40063300105   232 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300106   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300106   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300106   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300106   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300106   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063300101   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   400634001001   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063400001   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063400001   2320 BENT TIRE RIDGE DE NE   Manufage  Water Area   40063400001   2327 BENT TIRE RIDGE DE NE   Manufage  Water Area   400634000001   2327 BENT TIRE RIDGE DE NE   Manufage  Water Area   400634000000000000000000000000000000000  | · ·                  |              |                           |                                       |            |                       |           |                       |
| Manchagal Water Area   A0053530105   2325 BRT TREE RIDGE OR NE   Charterry   6/29/2021   5/11/2020   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  |              |                           |                                       | - ' '      |                       |           |                       |
| Municipal Water Area   Application   1250 BERT NO BLOCK   Semi-Annual   7/1/2011   7/24/2000   NA   NA   NA   NA   NA   NA   NA  | · ·                  | 1            |                           |                                       |            |                       |           |                       |
| Muncipal Water Area  |                      |              |                           |                                       |            |                       |           |                       |
| Munclipal Water Area   A0693390011   320 BENT TIRE FIDGE OR NE   Guarterly   7/7/2021   5/20/2020   NA   NA   NA   NA   Munclipal Water Area   A0693390012   3330 BENT TIRE FIDGE OR NE   Semi-Annual   8/1/2021   7/8/2020   NA   NA   NA   NA   NA   Munclipal Water Area   A069339002   3330 BENT TIRE FIDGE OR NE   Semi-Annual   8/1/2021   7/8/2020   NA   NA   NA   NA   NA   Munclipal Water Area   A069349002   2015 BOOTH BAY CT NE   Semi-Annual   8/1/2021   7/8/2020   NA   NA   NA   NA   Munclipal Water Area   A069349002   2015 BOOTH BAY CT NE   Guarterly   11/23/2022   5/6/2000   5/10/2022   NA   Munclipal Water Area   A069349002   2015 BOOTH BAY CT NE   Guarterly   11/23/2022   5/6/2000   5/10/2022   NA   Munclipal Water Area   A069349002   2015 BOOTH BAY CT NE   Semi-Annual   6/78/20213   5/4/2022   NA   NA   NA   Munclipal Water Area   A069349002   2015 BOOTH BAY CT NE   Semi-Annual   6/78/20213   5/4/2022   NA   NA   NA   Munclipal Water Area   A069349002   2016 BENTO NE   Semi-Annual   12/10/2022   7/20/2000   3/22/2022   NA   Munclipal Water Area   A069349002   2016 BENTO NE   Semi-Annual   12/10/2022   7/20/2000   3/22/2022   NA   Munclipal Water Area   A069349002   2016 BENTO NE   Semi-Annual   12/10/2022   7/20/2000   3/22/2022   NA   Munclipal Water Area   A069349002   2016 BENTO NE   Semi-Annual   12/10/2022   7/20/2000   3/22/2022   NA   Munclipal Water Area   A069349002   7/20 (A06040ER DR NE   Semi-Annual   12/10/2022   NA   NA   NA   NA   NA   NA   NA   | <u> </u>             |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area 40053-301003 332-8 BENT TREE RIDGE OR NE 5emi-Annual 5/72/2021 11/4/2020 NA NA NA NA Municipal Water Area 40053-502013 333-0 BENT TREE RIDGE OR NE 5emi-Annual 5/72/2023 7/8/2020 NA NA NA NA NA Municipal Water Area 40054-502013 333-0 BENT TREE RIDGE OR NE 5emi-Annual 5/72/2023 NA NA Municipal Water Area 40054-502013 372-70202 NA NA Municipal Water Area 40054-502013 372-70202 NA NA NA NA Municipal Water Area 410054-502013 372-70202 NA NA Municipal Water Area 410054-502013 372-70202 NA NA NA NA NA NA NA NA Municipal Water Area 410004-50203 372-70202 NA NA NA NA NA NA NA NA Municipal Water Area 410004-50203 372-70202 NA NA Municipal Water Area 410004-50203 372-70202 NA   | · ·                  |              |                           | · '                                   |            |                       |           |                       |
| Municipal Water Area 400533301013 3330 BENTTREE RIDGE DR NE 50m-Annual 57/2021 7/8/2020 NA Municipal Water Area 40052452020 3218 DOTH BAY CT NE Quarterly 11/23/2022 NA Municipal Water Area 40052452020 3218 DOTH BAY CT NE Quarterly 11/23/2022 NA Municipal Water Area 40052452020 3218 DOTH BAY CT NE Quarterly 11/23/2022 NA Municipal Water Area 40052452020 3218 DOTH BAY CT NE Quarterly 11/23/2022 NA NA NA Municipal Water Area 410052452020 3218 DOTH BAY CT NE Semi-Annual 11/23/2023 NA NA NA NA Municipal Water Area 410002400520 2120 BERNT DR NE Semi-Annual 11/23/2023 NA Municipal Water Area 410002400520 2120 BERNT DR NE Semi-Annual 11/23/2023 NA Municipal Water Area 410002400520 2120 BERNT DR NE Semi-Annual 11/23/2022 NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual 11/23/2022 NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual 11/23/2022 NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual 11/23/2022 NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual NA Municipal Water Area 410002400521 2120 BERNT DR NE Semi-Annual NA  | · ·                  |              |                           | · '                                   |            |                       |           |                       |
| Muncipal Water Area  Allo26435200  207 BOOTH BAY CT NE  Allo26435200  207 BOOTH BAY CT |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   14100280000   2299 BOTH BAY CT NE   | · ·                  | +            |                           |                                       |            |                       |           |                       |
| Munricipal Water Area  | · ·                  | +            |                           | · '                                   |            |                       |           |                       |
| Manricigal Water Area   #400930005   200 BRENT DR NE   Semi-Annual   11/21/2022   6/37/2020   7/21/2022   NA   | · ·                  |              |                           | · '                                   |            |                       |           |                       |
| Municipal Water Area   1100420059   2108 BENT DR NE   Semi-Annual   11/2/0212   7/20/2020   3/22/2022   NA   | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   ## ## ## ## ## ## ## ## ## ## ## ## #   |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   #11000200032   239 BRITTANY OR NE   Semi-Annual   19/21/2022   7/33/2020   3/22/2022   NA   | · ·                  |              |                           | +                                     |            |                       |           |                       |
| Municipal Water Area   |                      | +            |                           |                                       |            |                       |           |                       |
| Municipal Water Area   11009420034   2179 BRITTANY DR NE   Semi-Annual   9723/2002   7728/2002   NA   NA   NA   NA   NA   NA   NA   N  |                      |              |                           |                                       | _ · ·      |                       |           |                       |
| Municipal Water Area   411009340001   7042 CHANDLER DR NE   Semi-Annual   9/30/2020   NA   NA   NA   NA   NA   NA   NA   N   | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   |                      | 1            |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009310001   7169 CHANDLER DR NE   Semi-Annual   9/17/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009310001   7169 CHANDLER DR NE   Semi-Annual   7/8/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009320001   7169 CHANDLER DR NE   Semi-Annual   8/10/2020   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  | +            |                           |                                       |            |                       |           |                       |
| Municipal Water Area   1100930003   7129 CHANDLER DR NE   Semi-Annual   7/29/2020   NA   | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   11009301001   7.69 CHANDLER DR NE   Semi-Annual   7/8/2020   NA   NA   NA   NA   NA   Municipal Water Area   41109310001   7.200 CHANDLER DR NE   Semi-Annual   7/23/2020   NA   NA   NA   NA   NA   Municipal Water Area   41109310001   7.249 CHANDLER DR NE   Semi-Annual   7/23/2020   NA   NA   NA   NA   NA   NA   NA   N   |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   4110093100005   7249 CHANDLER DR NE   Semi-Annual   8/10/2020   NA   NA   NA   NA   NA   NA   NA   N  |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009100001 7200 CHANDLER DR NE  |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009100005   7249 CHANDLER DR NE  |                      |              |                           |                                       | _ · ·      |                       |           |                       |
| Municipal Water Area   411009100035   7300 CHANDLER DR NE   Semi-Annual   9/29/2020   NA   NA   NA   NA   Municipal Water Area   411009100038   7343 CHANDLER DR NE   Semi-Annual   7/31/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100044   7370 CHANDLER DR NE   Semi-Annual   8/24/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411009100041   7370 CHANDLER DR NE   Annual   8/24/2020   NA   NA   NA   NA   NA   NA   NA   Municipal Water Area   411009100011   7401 CHANDLER DR NE   Semi-Annual   8/3/2020   5/44/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100012   7410 CHANDLER DR NE   Semi-Annual   7/20/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100045   7410 CHANDLER DR NE   Semi-Annual   7/20/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100067   7410 CHANDLER DR NE   Semi-Annual   7/20/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100067   7422 CHANDLER DR NE   Semi-Annual   8/19/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100007   7425 CHANDLER DR NE   Semi-Annual   8/19/2020   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  | +            |                           | +                                     |            |                       |           |                       |
| Municipal Water Area   411009100033   7343 CHANDLER OR NE   Semi-Annual   7/31/2020   NA   NA   NA   NA   Municipal Water Area   411009100041   7370 CHANDLER OR NE   Semi-Annual   8/24/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100041   7370 CHANDLER OR NE   Semi-Annual   8/24/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411009100041   7370 CHANDLER OR NE   Semi-Annual   8/24/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411009100045   7410 CHANDLER OR NE   Semi-Annual   7/20/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100057   7415 CHANDLER OR NE   Semi-Annual   7/21/2020   5/19/2020   NA   NA   NA   NA   Municipal Water Area   411009100057   7415 CHANDLER OR NE   Semi-Annual   8/11/2020   5/19/2020   NA   NA   NA   NA   Municipal Water Area   4110091000067   7425 CHANDLER OR NE   Semi-Annual   8/11/2020   NA   NA   NA   NA   NA   Municipal Water Area   4110091000067   7425 CHANDLER OR NE   Semi-Annual   8/19/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100007   7425 CHANDLER OR NE   Weekly   8/4/2020   3/31/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100037   7425 CHANDLER OR NE   Annual   7/8/2020   7/8/2020   7/8/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100037   7425 CHANDLER OR NE   Quarterly   8/5/2020   4/21/2020   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  |              |                           | +                                     |            |                       |           |                       |
| Numicipal Water Area   411009100038   7367 CHANDLER DR NE   Semi-Annual   7/31/2020   NA   NA   NA   NA   NA   Municipal Water Area   4110091000011   7401 CHANDLER DR NE   Semi-Annual   8/24/2020   NA   NA   NA   NA   NA   NA   NA   Municipal Water Area   4110091000011   7401 CHANDLER DR NE   Semi-Annual   8/3/2020   5/14/2020   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009100044   7370 CHANDLER DR NE  |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009100011   7401 CHANDLER DR NE   Semi-Annual   8/3/2020   S/14/2020   NA   NA   NA   NA   NA   NA   NA   N  | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009100045   7410 CHANDLER DR NE   Semi-Annual   7/20/2020   NA   NA   NA   NA   Municipal Water Area   41100910005   7415 CHANDLER DR NE   Semi-Annual   7/21/2020   5/19/2020   NA   NA   NA   Municipal Water Area   41100910006   7419 CHANDLER DR NE   Monthly   8/13/2020   NA   NA   NA   NA   Municipal Water Area   411009100027   7425 CHANDLER DR NE   Semi-Annual   8/19/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100027   7425 CHANDLER DR NE   Semi-Annual   8/19/2020   NA   NA   NA   NA   NA   NA   NA   N   | · ·                  | +            |                           | +                                     |            |                       |           |                       |
| Municipal Water Area   411009100015   7415 CHANDLER DR NE   Semi-Annual   7/21/2020   5/19/2020   NA   NA   NA   Municipal Water Area   411009100026   7419 CHANDLER DR NE   Monthly   8/11/2020   4/20/2020   NA   NA   NA   NA   Municipal Water Area   411009100027   7425 CHANDLER DR NE   Semi-Annual   8/19/2020   NA   NA   NA   NA   NA   Municipal Water Area   411009100027   7425 CHANDLER DR NE   Weekly   8/4/2020   3/31/2020   NA   NA   NA   NA   NA   NA   NA   N   | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   411009100026   7419 CHANDLER DR NE  | · ·                  |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area   |                      |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area         411009100027         7425 CHANDLER DR NE         Weekly         8/4/2020         3/31/2020         NA         NA           Municipal Water Area         411009100030         7428 CHANDLER DR NE         Annual         7/8/2020         NA         NA         NA           Municipal Water Area         411009100031         7485 CHANDLER DR NE         Quarterly         8/25/2020         4/21/2020         NA         NA           Municipal Water Area         411009200025         7501 CHANDLER DR NE         Quarterly         8/6/2020         4/24/2020         NA         NA           Municipal Water Area         411009200025         7505 CHANDLER DR NE         Quarterly         8/24/2020         5/13/2020         NA         NA           Municipal Water Area         411009200027         7555 CHANDLER DR NE         Semi-Annual         6/30/2020         NA         NA         NA           Municipal Water Area         411009200027         7555 CHANDLER DR NE         Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411009200037         7555 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411009200037         7565 CHANDLER DR NE  | · ·                  |              |                           | · · · · · · · · · · · · · · · · · · · |            | · · ·                 |           |                       |
| Municipal Water Area         411009100030         7428 CHANDLER DR NE         Annual         7/8/2020         NA         NA         NA           Municipal Water Area         411009100036         7480 CHANDLER DR NE         Quarterly         8/25/2020         4/21/2020         NA         NA           Municipal Water Area         411009200025         7501 CHANDLER DR NE         Quarterly         8/6/2020         4/24/2020         NA         NA           Municipal Water Area         411009200025         7501 CHANDLER DR NE         Quarterly         8/24/2020         5/13/2020         NA         NA           Municipal Water Area         411009200027         7555 CHANDLER DR NE         Semi-Annual         6/30/2020         NA         NA         NA           Municipal Water Area         411009200037         7555 CHANDLER DR NE         Semi-Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/2/2020         NA         NA         NA           Municipal Water Area         410635100038         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         4106351000027         8922 ELSTNER AVE NE  |                      |              |                           | +                                     |            |                       |           |                       |
| Municipal Water Area         411009100036         7480 CHANDLER DR NE         Quarterly         8/25/2020         4/21/2020         NA         NA           Municipal Water Area         41100910003         7485 CHANDLER DR NE         Quarterly         8/6/2020         4/24/2020         NA         NA           Municipal Water Area         411009200022         7501 CHANDLER DR NE         Quarterly         8/24/2020         5/13/2020         NA         NA           Municipal Water Area         411009200022         7555 CHANDLER DR NE         Semi-Annual         6/30/2020         NA         NA         NA           Municipal Water Area         411009200037         7557 CHANDLER DR NE         Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411009200037         7555 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/12/201         3/13/2023           Municipal Water Area         410635100038         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100028         8984   | · ·                  |              |                           | '                                     |            |                       |           |                       |
| Municipal Water Area         411009100013         7485 CHANDLER DR NE         Quarterly         8/6/2020         4/24/2020         NA         NA           Municipal Water Area         411009200025         7501 CHANDLER DR NE         Quarterly         8/24/2020         5/13/2020         NA         NA           Municipal Water Area         411009200027         7555 CHANDLER DR NE         Semi-Annual         6/30/2020         NA         NA         NA           Municipal Water Area         411009200023         7555 CHANDLER DR NE         Semi-Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411009200023         7555 CHANDLER DR NE         Semi-Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/1/2021         3/13/2023           Municipal Water Area         410635100028         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100027         8  | · ·                  |              |                           | Annual                                |            |                       |           |                       |
| Municipal Water Area         411009200025         7501 CHANDLER DR NE         Quarterly         8/24/2020         5/13/2020         NA         NA           Municipal Water Area         411009200022         7555 CHANDLER DR NE         Semi-Annual         6/30/2020         NA         NA         NA           Municipal Water Area         411009200037         7557 CHANDLER DR NE         Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411009200023         7565 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411009200023         7565 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411003200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/1/2021         3/13/2023           Municipal Water Area         410635100028         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTN  |                      |              |                           | Quarterly                             |            |                       |           |                       |
| Municipal Water Area         411009200022         7555 CHANDLER DR NE         Semi-Annual         6/30/2020         NA         NA         NA           Municipal Water Area         411009200037         7557 CHANDLER DR NE         Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411009200023         7565 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/1/2021         3/13/2023           Municipal Water Area         410635100028         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA         NA           Municipal Water Area         410635100028         8870 ELSTNER AVE NE         Monthly         8/27/2021         5/19/2020         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410634228004   | Municipal Water Area | 411009100013 | 7485 CHANDLER DR NE       | Quarterly                             |            |                       |           |                       |
| Municipal Water Area         411009200037         7557 CHANDLER DR NE         Annual         7/15/2020         NA         NA         NA           Municipal Water Area         411009200023         7565 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/1/2021         3/13/2023           Municipal Water Area         410635100038         850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/27/2021         5/19/2020         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         4/22/2020         NA         NA           Municipal Water Area         410634228004         9047 E  | · ·                  | +            |                           | · '                                   |            | · · ·                 |           |                       |
| Municipal Water Area         411009200023         7565 CHANDLER DR NE         Semi-Annual         4/22/2021         NA         NA         NA           Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/1/2021         3/13/2023           Municipal Water Area         410635100038         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100028         8870 ELSTNER AVE NE         Monthly         8/27/2021         5/19/2020         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/19/2020         NA         NA           Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         410634228004  | Municipal Water Area |              |                           | Semi-Annual                           |            |                       |           |                       |
| Municipal Water Area         411002200053         8341 CHILDSDALE AVE NE         Monthly         11/10/2023         6/12/2020         9/1/2021         3/13/2023           Municipal Water Area         410635100038         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100029         8870 ELSTNER AVE NE         Monthly         8/27/2021         5/19/2020         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         41062400045         9311 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         4106274000   | <u> </u>             |              |                           |                                       |            | NA                    | NA        | NA                    |
| Municipal Water Area         410635100038         8850 ELSTNER AVE NE         Monthly         8/25/2021         5/4/2021         NA         NA           Municipal Water Area         410635100029         8870 ELSTNER AVE NE         Monthly         8/27/2021         5/19/2020         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         4/22/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         410634228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         410004045         9311 ELSTNER AVE NE         Semi-Annual         7/29/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038   | <u> </u>             |              |                           |                                       |            |                       |           |                       |
| Municipal Water Area         410635100029         8870 ELSTNER AVE NE         Monthly         8/27/2021         5/19/2020         NA         NA           Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         4/22/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         410634228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         4106034228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         41000340045         9311 ELSTNER AVE NE         Semi-Annual         11/12/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038 </td <td>Municipal Water Area</td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td>   | Municipal Water Area |              |                           | · · · · · · · · · · · · · · · · · · · |            |                       |           |                       |
| Municipal Water Area         410635100028         8894 ELSTNER AVE NE         Monthly         8/12/2021         5/18/2021         NA         NA           Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         4/22/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         410634228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         4106034228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         41000340045         9311 ELSTNER AVE NE         Semi-Annual         7/29/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038         7077 EMERALD FOREST DR NE         Semi-Annual         11/8/2022         7/2/2020         NA         NA           Municipal Water Area         411010   | Municipal Water Area | 410635100038 | 8850 ELSTNER AVE NE       | Monthly                               | 8/25/2021  | 5/4/2021              | NA        | NA                    |
| Municipal Water Area         410635100027         8922 ELSTNER AVE NE         Quarterly         9/3/2021         5/7/2020         NA         NA           Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         4/22/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         410634228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         410627400045         9311 ELSTNER AVE NE         Semi-Annual         7/29/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038         7077 EMERALD FOREST DR NE         Semi-Annual         1/18/2022         7/2/2020         NA         NA           Municipal Water Area         411010351003         2466 FROND ST NE         Semi-Annual         11/3/2021         7/28/2020         NA         NA           Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area  | · ·                  |              |                           | · · · · · · · · · · · · · · · · · · · |            |                       |           |                       |
| Municipal Water Area         410635100026         8948 ELSTNER AVE NE         Quarterly         9/3/2021         4/22/2020         NA         NA           Municipal Water Area         410634228004         9047 ELSTNER AVE NE         Semi-Annual         9/5/2023         11/18/2020         4/19/2022         NA           Municipal Water Area         410634228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         410627400045         9311 ELSTNER AVE NE         Semi-Annual         7/29/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038         7077 EMERALD FOREST DR NE         Semi-Annual         1/18/2022         7/2/2020         NA         NA           Municipal Water Area         411010351003         2466 FROND ST NE         Semi-Annual         11/3/2021         7/28/2020         NA         NA           Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Are  |                      |              |                           | · · · · · · · · · · · · · · · · · · · |            |                       |           |                       |
| Municipal Water Area       410634228004       9047 ELSTNER AVE NE       Semi-Annual       9/5/2023       11/18/2020       4/19/2022       NA         Municipal Water Area       410634228002       9145 ELSTNER AVE NE       Semi-Annual       11/12/2021       6/26/2020       NA       NA         Municipal Water Area       410627400045       9311 ELSTNER AVE NE       Semi-Annual       7/29/2021       8/10/2020       NA       NA         Municipal Water Area       411010326038       7077 EMERALD FOREST DR NE       Semi-Annual       1/18/2022       7/2/2020       NA       NA         Municipal Water Area       411010351003       2466 FROND ST NE       Semi-Annual       11/3/2021       7/28/2020       NA       NA         Municipal Water Area       410628476018       9285 GARDEN GATE DR NE       Semi-Annual       5/17/2023       5/22/2020       4/14/2022       NA         Municipal Water Area       410628476017       9305 GARDEN GATE DR NE       Semi-Annual       5/18/2023       11/18/2020       4/14/2022       NA         Municipal Water Area       410628476013       9370 GARDEN GATE DR NE       Semi-Annual       6/19/2023       8/14/2020       4/20/2022       NA   | Municipal Water Area |              |                           | Quarterly                             |            |                       | NA        |                       |
| Municipal Water Area         410634228002         9145 ELSTNER AVE NE         Semi-Annual         11/12/2021         6/26/2020         NA         NA           Municipal Water Area         410627400045         9311 ELSTNER AVE NE         Semi-Annual         7/29/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038         7077 EMERALD FOREST DR NE         Semi-Annual         1/18/2022         7/2/2020         NA         NA           Municipal Water Area         411010351003         2466 FROND ST NE         Semi-Annual         11/3/2021         7/28/2020         NA         NA           Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Area         410628476013         9370 GARDEN GATE DR NE         Semi-Annual         6/19/2023         8/14/2020         4/20/2022         NA  | Municipal Water Area |              |                           | Quarterly                             |            |                       |           |                       |
| Municipal Water Area         410627400045         9311 ELSTNER AVE NE         Semi-Annual         7/29/2021         8/10/2020         NA         NA           Municipal Water Area         411010326038         7077 EMERALD FOREST DR NE         Semi-Annual         1/18/2022         7/2/2020         NA         NA           Municipal Water Area         411010351003         2466 FROND ST NE         Semi-Annual         11/3/2021         7/28/2020         NA         NA           Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Area         410628476013         9370 GARDEN GATE DR NE         Semi-Annual         6/19/2023         8/14/2020         4/20/2022         NA   | Municipal Water Area |              |                           | Semi-Annual                           | 9/5/2023   | 11/18/2020            | 4/19/2022 | NA                    |
| Municipal Water Area         411010326038         7077 EMERALD FOREST DR NE         Semi-Annual         1/18/2022         7/2/2020         NA         NA           Municipal Water Area         411010351003         2466 FROND ST NE         Semi-Annual         11/3/2021         7/28/2020         NA         NA           Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Area         410628476013         9370 GARDEN GATE DR NE         Semi-Annual         6/19/2023         8/14/2020         4/20/2022         NA   | Municipal Water Area | 410634228002 | 9145 ELSTNER AVE NE       | Semi-Annual                           | 11/12/2021 | 6/26/2020             | NA        | NA                    |
| Municipal Water Area         411010351003         2466 FROND ST NE         Semi-Annual         11/3/2021         7/28/2020         NA         NA           Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Area         410628476013         9370 GARDEN GATE DR NE         Semi-Annual         6/19/2023         8/14/2020         4/20/2022         NA  | Municipal Water Area |              |                           | Semi-Annual                           | 7/29/2021  | 8/10/2020             | NA        | NA                    |
| Municipal Water Area         410628476018         9285 GARDEN GATE DR NE         Semi-Annual         5/17/2023         5/22/2020         4/14/2022         NA           Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Area         410628476013         9370 GARDEN GATE DR NE         Semi-Annual         6/19/2023         8/14/2020         4/20/2022         NA   | Municipal Water Area | 411010326038 | 7077 EMERALD FOREST DR NE | Semi-Annual                           | 1/18/2022  | 7/2/2020              | NA        | NA                    |
| Municipal Water Area         410628476017         9305 GARDEN GATE DR NE         Semi-Annual         5/18/2023         11/18/2020         4/14/2022         NA           Municipal Water Area         410628476013         9370 GARDEN GATE DR NE         Semi-Annual         6/19/2023         8/14/2020         4/20/2022         NA   | Municipal Water Area | 411010351003 | 2466 FROND ST NE          | Semi-Annual                           | 11/3/2021  | 7/28/2020             | NA        | NA                    |
| Municipal Water Area 410628476013 9370 GARDEN GATE DR NE Semi-Annual 6/19/2023 8/14/2020 4/20/2022 NA  | Municipal Water Area | 410628476018 | 9285 GARDEN GATE DR NE    | Semi-Annual                           | 5/17/2023  | 5/22/2020             | 4/14/2022 | NA                    |
|  | Municipal Water Area | 410628476017 | 9305 GARDEN GATE DR NE    | Semi-Annual                           | 5/18/2023  | 11/18/2020            | 4/14/2022 | NA                    |
| Municipal Water Area 411010351004 6975 HERRINGTON AVE NE Semi-Annual 12/22/2021 2/9/2021 NA NA   | Municipal Water Area | 410628476013 | 9370 GARDEN GATE DR NE    | Semi-Annual                           | 6/19/2023  | 8/14/2020             | 4/20/2022 | NA                    |
|  | Municipal Water Area | 411010351004 | 6975 HERRINGTON AVE NE    | Semi-Annual                           | 12/22/2021 | 2/9/2021              | NA        | NA                    |

|                      |              |                        | Former Monitoring | Municipal Water | First GAC Change Date | Second GAC Change | Third GAC Change Date |
|----------------------|--------------|------------------------|-------------------|-----------------|-----------------------|-------------------|-----------------------|
| Area Type            | PPN          | Address                | Interval          | Connection Date |                       | Date              | _                     |
| Municipal Water Area | 411010301022 | 6997 HERRINGTON AVE NE | Semi-Annual       | 11/8/2021       | 8/11/2020             | NA                | NA<br>NA              |
| Municipal Water Area | 411010301028 |                        | Semi-Annual       | 12/17/2021      | 11/6/2020             | NA                | NA<br>NA              |
| Municipal Water Area | +            | 7029 HERRINGTON AVE NE | Semi-Annual       | 10/27/2021      | 8/14/2020             | NA                | NA<br>NA              |
| Municipal Water Area |              | 7034 HERRINGTON AVE NE | Semi-Annual       | 12/23/2021      | 2/3/2021              | NA                | NA<br>NA              |
| Municipal Water Area |              | 7157 HERRINGTON AVE NE | Semi-Annual       | 9/20/2021       | 6/24/2020             | NA                | NA<br>NA              |
| Municipal Water Area |              | 7193 HERRINGTON AVE NE | Semi-Annual       | 9/10/2021       | 7/10/2020             | NA                | NA<br>NA              |
| Municipal Water Area | 411009200047 |                        | Annual            | 9/10/2021       | 1/4/2021              | NA                | NA<br>                |
| Municipal Water Area |              | 7211 HERRINGTON AVE NE | Semi-Annual       | 11/1/2021       | 8/7/2020              | NA                | NA<br>                |
| Municipal Water Area |              | 7220 HERRINGTON AVE NE | Semi-Annual       | 12/9/2021       | 7/13/2020             | NA                | NA<br>                |
| Municipal Water Area | 411009200007 |                        | Semi-Annual       | 8/11/2021       | 12/3/2020             | NA                | NA                    |
| Municipal Water Area |              | 7373 HERRINGTON AVE NE | Semi-Annual       | 9/15/2021       | 6/30/2020             | NA                | NA                    |
| Municipal Water Area |              | 7400 HERRINGTON AVE NE | Annual            | 8/19/2020       | NA                    | NA                | NA                    |
| Municipal Water Area |              | 7415 HERRINGTON AVE NE | Semi-Annual       | 8/12/2020       | NA                    | NA                | NA                    |
| Municipal Water Area |              | 7426 HERRINGTON AVE NE | Semi-Annual       | 8/27/2020       | NA                    | NA                | NA                    |
| Municipal Water Area |              | 7435 HERRINGTON AVE NE | Annual            | 7/24/2020       | NA                    | NA                | NA                    |
| Municipal Water Area |              | 7445 HERRINGTON AVE NE | Annual            | 9/25/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200041 | 7460 HERRINGTON AVE NE | Semi-Annual       | 8/25/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200032 | 7500 HERRINGTON AVE NE | Semi-Annual       | 8/18/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200018 | 7509 HERRINGTON AVE NE | Annual            | 8/17/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200014 | 7531 HERRINGTON AVE NE | Annual            | 8/31/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200027 | 7550 HERRINGTON AVE NE | Semi-Annual       | 8/24/2020       | 2/28/2020             | NA                | NA                    |
| Municipal Water Area | 411009200045 | 7580 HERRINGTON AVE NE | Semi-Annual       | 9/2/2020        | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200002 | 7585 HERRINGTON AVE NE | Semi-Annual       | 8/11/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411009200043 | 7608 HERRINGTON AVE NE | Annual            | 10/27/2020      | NA                    | NA                | NA                    |
| Municipal Water Area | 411004477002 | 7630 HERRINGTON AVE NE | Semi-Annual       | 8/25/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451006 | 7649 HERRINGTON AVE NE | Semi-Annual       | 8/27/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451007 | 7651 HERRINGTON AVE NE | Semi-Annual       | 9/17/2020       | 5/20/2020             | NA                | NA                    |
| Municipal Water Area | 411004451005 | 7661 HERRINGTON AVE NE | Semi-Annual       | 9/15/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451004 | 7667 HERRINGTON AVE NE | Semi-Annual       | 7/31/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004476004 | 7680 HERRINGTON AVE NE | Semi-Annual       | 8/3/2020        | NA                    | NA                | NA                    |
| Municipal Water Area | 411004476003 | 7712 HERRINGTON AVE NE | Semi-Annual       | 8/14/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004476002 | 7720 HERRINGTON AVE NE | Semi-Annual       | 9/8/2020        | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451003 | 7737 HERRINGTON AVE NE | Semi-Annual       | 7/30/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451010 | 7747 HERRINGTON AVE NE | Semi-Annual       | 8/14/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451011 | 7757 HERRINGTON AVE NE | Semi-Annual       | 10/28/2020      | 5/12/2020             | NA                | NA                    |
| Municipal Water Area | 411004451012 | 7777 HERRINGTON AVE NE | Annual            | 10/27/2020      | NA                    | NA                | NA                    |
| Municipal Water Area | 411004426003 | 7830 HERRINGTON AVE NE | Semi-Annual       | 8/13/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004451001 | 7863 HERRINGTON AVE NE | Semi-Annual       | 7/30/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004426002 | 7864 HERRINGTON AVE NE | Semi-Annual       | 8/27/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411004200048 | 8004 HERRINGTON AVE NE | Semi-Annual       | 8/22/2022       | 3/2/2022              | NA                | NA                    |
| Municipal Water Area | 411004200051 | 8025 HERRINGTON AVE NE | Semi-Annual       | 11/3/2022       | 7/30/2020             | 5/10/2022         | NA                    |
| Municipal Water Area | 411004200046 | 8092 HERRINGTON AVE NE | Semi-Annual       | 10/21/2022      | 6/22/2020             | 3/23/2022         | NA                    |
| Municipal Water Area | 411004200045 | 8100 HERRINGTON AVE NE | Semi-Annual       | 7/22/2022       | 11/23/2020            | 3/16/2022         | NA                    |
| Municipal Water Area | 411004200021 | 8138 HERRINGTON AVE NE | Semi-Annual       | 7/29/2022       | 6/22/2020             | 2/9/2022          | NA                    |
| Municipal Water Area | 411004200049 | 8151 HERRINGTON AVE NE | Semi-Annual       | Pending         | 1/4/2021              | 2/2/2022          | 8/23/2023             |
| Municipal Water Area | 411004200044 | 8180 HERRINGTON AVE NE | Semi-Annual       | 7/22/2022       | Gordon                | Gordon            | NA                    |
| Municipal Water Area | 411004200029 | 8265 HERRINGTON AVE NE | Semi-Annual       | 7/28/2022       | 6/26/2020             | 2/2/2022          | NA                    |
| Municipal Water Area | 411004200025 | 8273 HERRINGTON AVE NE | Semi-Annual       | 6/28/2022       | Attempted to Schedule | NA                | NA                    |
| Municipal Water Area | 411004200028 | 8281 HERRINGTON AVE NE | Semi-Annual       | 9/26/2022       | 7/20/2020             | 2/14/2022         | NA                    |
| Municipal Water Area |              | 8301 HERRINGTON AVE NE | Semi-Annual       | 8/10/2022       | 8/17/2020             | 1/21/2022         | NA                    |
| Municipal Water Area |              | 8315 HERRINGTON AVE NE | Semi-Annual       | 8/29/2023       | 7/24/2020             | 1/31/2022         | NA                    |
| Municipal Water Area | 411004200052 | 8327 HERRINGTON AVE NE | Semi-Annual       | 10/9/2023       | 7/23/2020             | 4/26/2022         | NA                    |
| Municipal Water Area |              | 8333 HERRINGTON AVE NE | Semi-Annual       | 8/4/2022        | 7/22/2020             | 1/25/2022         | NA                    |
| Municipal Water Area |              | 8377 HERRINGTON AVE NE | Semi-Annual       | 11/16/2022      | Attempted to Schedule | NA                | NA                    |
| Municipal Water Area |              | 8386 HERRINGTON AVE NE | Semi-Annual       | 11/16/2022      | 8/13/2020             | 2/1/2022          | NA                    |
| Municipal Water Area |              | 8431 HERRINGTON AVE NE | Semi-Annual       | 9/26/2022       | 6/18/2020             | 3/1/2022          | NA                    |
| Municipal Water Area | 1            | 8910 HOPEWELL DR NE    | Quarterly         | 6/14/2021       | Gordon                | NA                | NA                    |
| Municipal Water Area |              | 1265 HOUSE ST NE       | Annual            | 12/3/2020       | NA                    | NA                | NA                    |
| Municipal Water Area | 411005400042 |                        | Semi-Annual       | 12/3/2020       | NA                    | NA                | NA                    |
| Municipal Water Area |              | 1300 HOUSE ST NE       | Semi-Annual       | 1/11/2021       | NA                    | NA                | NA                    |
| Municipal Water Area |              | 1310 HOUSE ST NE       | Semi-Annual       | 8/19/2020       | NA                    | NA                | NA                    |
|                      |              | ı                      | 1                 |                 | 1                     |                   | 1                     |

| Area Type                | PPN          | Address                  | Former Monitoring<br>Interval | Municipal Water<br>Connection Date | First GAC Change Date | Second GAC Change<br>Date | Third GAC Change Date |
|--------------------------|--------------|--------------------------|-------------------------------|------------------------------------|-----------------------|---------------------------|-----------------------|
| Municipal Water Area     | 411005400037 | 1339 HOUSE ST NE         | Annual                        | 11/19/2020                         | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411008200036 | 1360 HOUSE ST NE         | Annual                        | 2/10/2021                          | Gordon                | NA                        | NA                    |
| Municipal Water Area     | 411008200049 | 1430 HOUSE ST NE         | Annual                        | 8/20/2020                          | Bayes                 | NA                        | NA                    |
| Municipal Water Area     | 411008200019 | 1440 HOUSE ST NE         | Semi-Annual                   | 9/28/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411005400045 | 1447 HOUSE ST NE         | Semi-Annual                   | 9/15/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411008200011 | 1460 HOUSE ST NE         | Semi-Annual                   | 10/14/2020                         | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411005400018 | 1475 HOUSE ST NE         | Annual                        | 9/1/2020                           | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411008200012 | 1480 HOUSE ST NE         | Annual                        | 9/30/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411005400019 | 1495 HOUSE ST NE         | Semi-Annual                   | 9/9/2020                           | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411008200015 | 1500 HOUSE ST NE         | Semi-Annual                   | 9/9/2020                           | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411009100041 | 1580 HOUSE ST NE         | Semi-Annual                   | 9/14/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411009100042 | 1584 HOUSE ST NE         | Semi-Annual                   | 1/21/2021                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411005400025 | 1597 HOUSE ST NE         | Semi-Annual                   | 9/28/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411009100043 | 1600 HOUSE ST NE         | Semi-Annual                   | 8/21/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     | 411005400008 | 1601 HOUSE ST NE         | Semi-Annual                   | 8/21/2020                          | 9/30/2020             | NA                        | NA                    |
| Municipal Water Area     |              | 1617 HOUSE ST NE         | Semi-Annual                   | 8/25/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1625 HOUSE ST NE         | Semi-Annual                   | 8/18/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1640 HOUSE ST NE         | Semi-Annual                   | 8/25/2020                          | 5/19/2020             | NA                        | NA                    |
| Municipal Water Area     |              | 1650 HOUSE ST NE         | Quarterly                     | 1/14/2021                          | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1654 HOUSE ST NE         | Semi-Annual                   | 8/5/2020                           | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1655 HOUSE ST NE         | Semi-Annual                   | 9/23/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1664 HOUSE ST NE         | Semi-Annual                   | 10/20/2020                         | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1676 HOUSE ST NE         | Semi-Annual                   | 10/20/2020                         | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1682 HOUSE ST NE         | Semi-Annual                   | 10/1/2020                          | NA                    | NA                        | NA                    |
| Municipal Water Area     |              | 1698 HOUSE ST NE         | Quarterly                     | 8/28/2020                          | 4/23/2020             | NA                        | NA                    |
| Municipal Water Area     |              | 1711 HOUSE ST NE         | Quarterly                     | 10/21/2020                         | 5/11/2020             | NA                        | NA NA                 |
| Municipal Water Area     |              | 1767 HOUSE ST NE         | Quarterly                     | 9/24/2020                          | 5/5/2020              | NA                        | NA                    |
| Municipal Water Area     |              | 1778 HOUSE ST NE         | Quarterly                     | 10/15/2020                         | Gordon                | NA NA                     | NA NA                 |
| Municipal Water Area     | 1            | 1781 HOUSE ST NE         | Quarterly                     | 7/6/2020                           | Gordon                | NA                        | NA NA                 |
| Municipal Water Area     |              | 1786 HOUSE ST NE         | Weekly                        | 12/9/2020                          | NA NA                 | NA                        | NA NA                 |
| Municipal Water Area     |              | 1850 HOUSE ST NE         | Weekly                        | 9/21/2020                          | 4/17/2020             | NA NA                     | NA NA                 |
| Municipal Water Area     |              | 2115 HOUSE ST NE         | Semi-Annual                   | 9/22/2020                          | NA NA                 | NA                        | NA NA                 |
| Municipal Water Area     |              | 6107 IDAHO AVE NE        | Semi-Annual                   | 11/2/2020                          | 8/5/2020              | NA                        | NA NA                 |
| Municipal Water Area     |              | 6121 IDAHO AVE NE        | Semi-Annual                   | 2/24/2021                          | 8/5/2020              | NA                        | NA NA                 |
| Municipal Water Area     |              | 6126 IDAHO AVE NE        | Semi-Annual                   | 9/23/2020                          | 8/7/2020              | NA                        | NA NA                 |
| Municipal Water Area     |              | 7853 IMPERIAL PINE DR NE | Semi-Annual                   | 1/28/2021                          | NA                    | NA                        | NA NA                 |
| Municipal Water Area     |              | 7879 IMPERIAL PINE DR NE | Quarterly                     | 11/23/2020                         | Gordon                | NA                        | NA NA                 |
| Municipal Water Area     |              | 7885 IMPERIAL PINE DR NE | Quarterly                     | 11/23/2020                         | Gordon                | NA NA                     | NA NA                 |
| Municipal Water Area     |              | 8980 JEWELL AVE NE       | Quarterly                     | 10/20/2022                         | 5/14/2020             | 4/19/2022                 | NA NA                 |
| Municipal Water Area     |              | 9000 JEWELL AVE NE       | Quarterly                     | 9/29/2022                          | 8/27/2020             | 4/7/2022                  | NA NA                 |
| Municipal Water Area     |              | 9011 JEWELL AVE NE       | Semi-Annual                   | 1/4/2023                           | · · ·                 | eclined Further Mainten   |                       |
| Municipal Water Area     |              | 9070 JEWELL AVE NE       | Quarterly                     | 9/30/2022                          | 5/12/2020             | 3/30/2022                 | NA NA                 |
| Municipal Water Area     |              | 9090 JEWELL AVE NE       | Quarterly                     | 10/5/2022                          | 8/31/2020             | 3/30/2022                 | NA                    |
| Municipal Water Area     | 1            | 9101 JEWELL AVE NE       | Quarterly                     | 8/30/2022                          | 1/11/2021             | 3/9/2022                  | NA NA                 |
| Municipal Water Area     |              | 9150 JEWELL AVE NE       | Quarterly                     | 9/12/2022                          | 5/26/2020             | 2/1/2022                  | NA NA                 |
| Municipal Water Area     |              | 9165 JEWELL AVE NE       | Quarterly                     | 1/18/2023                          | 5/8/2020              | 5/4/2022                  | NA NA                 |
| Municipal Water Area     |              | 9171 JEWELL AVE NE       | Quarterly                     | 11/11/2022                         | 5/19/2020             | 4/25/2022                 | NA NA                 |
| Municipal Water Area     |              | 2020 KORBEN WOODS CT NE  | Annual                        | 12/3/2021                          | 8/27/2020             | NA                        | NA NA                 |
| Municipal Water Area     |              | 2039 KORBEN WOODS CT NE  | Annual                        | 12/16/2021                         | 7/7/2020              | NA NA                     | NA NA                 |
| Municipal Water Area     |              | 2042 KORBEN WOODS CT NE  | Semi-Annual                   | 9/29/2021                          | 6/25/2020             | NA                        | NA NA                 |
| Municipal Water Area     |              | 2055 KORBEN WOODS CT NE  | Annual                        | 12/15/2021                         | 8/18/2020             | 3/8/2022                  | NA NA                 |
| Municipal Water Area     |              | 2075 KORBEN WOODS CT NE  | Semi-Annual                   | 12/30/2021                         | Attempted to Schedule | NA                        | NA NA                 |
| Municipal Water Area     |              | 2077 KORBEN WOODS CT NE  | Semi-Annual                   | 12/15/2021                         | 6/29/2020             | NA                        | NA NA                 |
| Municipal Water Area     |              | 8900 LADY LAUREN DR NE   | Semi-Annual                   | 7/1/2020                           | NA                    | NA NA                     | NA NA                 |
| Municipal Water Area     |              | 8903 LADY LAUREN DR NE   | Weekly                        | 6/10/2020                          | 4/9/2020              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area     |              | 8914 LADY LAUREN DR NE   | Semi-Annual                   | 6/24/2020                          | 4/3/2020<br>NA        | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area     |              | 8919 LADY LAUREN DR NE   | Weekly                        | 6/8/2020                           | NA<br>NA              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area     |              | 8922 LADY LAUREN DR NE   | Weekly                        | 7/13/2020                          | 4/9/2020              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area     |              | 8927 LADY LAUREN DR NE   | Weekly                        | 6/18/2020                          | 4/7/2020              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area     |              | 8930 LADY LAUREN DR NE   | Monthly                       | 7/28/2020                          | 4/16/2020             | NA<br>NA                  | NA<br>NA              |
| ividilicipai vvatei Alea | +10034227039 | 0220 FAD LEVOVEM DV ME   | ivioritiily                   | 1/20/2020                          | 4/ 10/ 2020           | INA                       | INA                   |

| Area Type                                    | PPN          | Address   | Former Monitoring<br>Interval | Municipal Water Connection Date | First GAC Change Date | Second GAC Change | Third GAC Change Date |
|--|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------------|-----------------------|
| Municipal Water Area                         | 410634227047 | 8935 LADY LAUREN DR NE                          | Weekly                        | 7/16/2020                       | 4/9/2020              | Date<br>NA        | NA                    |
| Municipal Water Area                         | 410634227047 |   | Quarterly                     | 7/10/2020                       | 4/9/2020<br>NA        | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 8942 LADY LAUREN DR NE                          | Monthly                       | 6/4/2020                        | 5/19/2020             | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 8947 LADY LAUREN DR NE                          | Quarterly                     | 7/13/2020                       | NA                    | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         | 410634227037 |   | Monthly                       | 6/4/2020                        | 4/28/2020             | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 9070 LADY LAUREN DR NE                          | Quarterly                     | 7/20/2020                       | 5/18/2020             | NA NA             | NA NA                 |
| Municipal Water Area                         | 410634227007 |   | Semi-Annual                   | 7/22/2020                       | NA                    | NA NA             | NA NA                 |
| Municipal Water Area                         |              | 9128 LADY LAUREN DR NE                          | Quarterly                     | 6/26/2020                       | 5/20/2020             | NA NA             | NA NA                 |
| Municipal Water Area                         |              | 9152 LADY LAUREN DR NE                          | Semi-Annual                   | 8/13/2020                       | 6/16/2020             | NA                | NA NA                 |
| Municipal Water Area                         |              | 9155 LADY LAUREN DR NE                          | Semi-Annual                   | 6/5/2020                        | 5/21/2020             | NA NA             | NA NA                 |
| Municipal Water Area                         |              | 9164 LADY LAUREN DR NE                          | Quarterly                     | 6/23/2020                       | 5/8/2020              | NA                | NA NA                 |
| Municipal Water Area                         |              | 9169 LADY LAUREN DR NE                          | Semi-Annual                   | 10/5/2020                       | NA NA                 | NA                | NA                    |
| Municipal Water Area                         |              | 9175 LADY LAUREN DR NE                          | Quarterly                     | 7/7/2020                        | NA                    | NA                | NA                    |
| Municipal Water Area                         | +            | 9178 LADY LAUREN DR NE                          | Semi-Annual                   | 7/9/2020                        | NA                    | NA                | NA                    |
| Municipal Water Area                         |              | 9187 LADY LAUREN DR NE                          | Quarterly                     | 6/16/2020                       | 5/5/2020              | NA                | NA                    |
| Municipal Water Area                         | 410634227013 | 9190 LADY LAUREN DR NE                          | Semi-Annual                   | 7/8/2020                        | NA                    | NA                | NA                    |
| Municipal Water Area                         | 410634227017 | 9193 LADY LAUREN DR NE                          | Semi-Annual                   | 6/29/2020                       | NA                    | NA                | NA                    |
| Municipal Water Area                         | 410634227016 | 9195 LADY LAUREN DR NE                          | Semi-Annual                   | 9/3/2020                        | NA                    | NA                | NA                    |
| Municipal Water Area                         |              | 9200 LADY LAUREN DR NE                          | Semi-Annual                   | 10/5/2020                       | NA                    | NA                | NA                    |
| Municipal Water Area                         | 410634227014 | 9202 LADY LAUREN DR NE                          | Semi-Annual                   | 6/24/2020                       | NA                    | NA                | NA                    |
| Municipal Water Area                         | 411009401007 | 2001 MEEK DR NE                                 | Annual                        | 1/20/2022                       | 7/15/2020             | NA                | NA                    |
| Municipal Water Area                         | 411009401006 | 2023 MEEK DR NE                                 | Annual                        | 1/31/2022                       | 11/6/2020             | 2/16/2022         | NA                    |
| Municipal Water Area                         | 411009401010 | 2024 MEEK DR NE                                 | Semi-Annual                   | 1/19/2022                       | Attempted to Schedule | NA                | NA                    |
| Municipal Water Area                         | 411009401014 | 2036 MEEK DR NE                                 | Semi-Annual                   | 5/27/2022                       | 3/8/2022              | NA                | NA                    |
| Municipal Water Area                         | 411009401005 | 2039 MEEK DR NE                                 | Semi-Annual                   | 1/7/2022                        | 6/16/2020             | NA                | NA                    |
| Municipal Water Area                         | 411009401001 | 2051 MEEK DR NE                                 | Annual                        | 5/27/2022                       | 4/22/2022             | 4/22/2022         | NA                    |
| Municipal Water Area                         | 411009401018 | 2060 MEEK DR NE                                 | Semi-Annual                   | 12/15/2021                      | 11/19/2020            | NA                | NA                    |
| Municipal Water Area                         | 411009251022 | 2066 MEEK DR NE                                 | Semi-Annual                   | 1/12/2022                       | 8/5/2020              | NA                | NA                    |
| Municipal Water Area                         | 411009251023 | 2072 MEEK DR NE                                 | Semi-Annual                   | 12/9/2021                       | 8/12/2020             | NA                | NA                    |
| Municipal Water Area                         | 411009251024 | 2086 MEEK DR NE                                 | Semi-Annual                   | 12/20/2021                      | 8/21/2020             | NA                | NA                    |
| Municipal Water Area                         | 411009251025 | 2100 MEEK DR NE                                 | Semi-Annual                   | 11/19/2021                      | 5/21/2020             | NA                | NA                    |
| Municipal Water Area                         | 411009251003 | 2141 MEEK DR NE                                 | Quarterly                     | 12/15/2021                      | 12/9/2020             | 4/11/2022         | NA                    |
| Municipal Water Area                         | 411009251004 | 2147 MEEK DR NE                                 | Quarterly                     | 12/20/2021                      | 4/21/2020             | 3/23/2022         | NA                    |
| Municipal Water Area                         |              | 2153 MEEK DR NE                                 | Semi-Annual                   | 11/17/2021                      | 8/27/2020             | NA                | NA                    |
| Municipal Water Area                         |              | 2154 MEEK DR NE                                 | Quarterly                     | 9/29/2021                       | 6/23/2020             | NA                | NA                    |
| Municipal Water Area                         |              | 9286 NAGSHEAD CT NE                             | Semi-Annual                   | 11/10/2022                      | 8/13/2020             | 7/15/2022         | NA                    |
| Municipal Water Area                         |              | 9253 NANTUCKET CT NE                            | Quarterly                     | 11/28/2022                      | 4/22/2020             | 3/30/2022         | NA                    |
| Municipal Water Area                         | 410628452006 |   | Quarterly                     | 1/11/2023                       | 6/17/2020             | 3/25/2022         | NA                    |
| Municipal Water Area                         |              | 9269 NANTUCKET CT NE                            | Quarterly                     | 8/8/2023                        | 4/21/2020             | 4/5/2022          | NA                    |
| Municipal Water Area                         |              | 9277 NANTUCKET CT NE                            | Quarterly                     | 10/12/2022                      | 5/15/2020             | 3/28/2022         | NA                    |
| Municipal Water Area                         |              | 9285 NANTUCKET CT NE                            | Semi-Annual                   | 10/28/2022                      | 7/20/2020             | 4/11/2022         | NA                    |
| Municipal Water Area                         |              | 6605 PACKER DR NE                               | Semi-Annual                   | 1/26/2022                       | 2/9/2021              | NA                | NA                    |
| Municipal Water Area                         | +            | 7000 PACKER DR NE                               | Semi-Annual                   | 12/14/2021                      | 7/10/2020             | NA                | NA                    |
| Municipal Water Area                         |              | 7035 PACKER DR NE                               | Semi-Annual                   | 12/14/2021                      | 8/5/2020              | NA<br>2 /1 /2222  | NA                    |
| Municipal Water Area                         |              | 7165 PACKER DR NE                               | Semi-Annual                   | 9/16/2022                       | 8/18/2020             | 2/1/2022          | NA<br>NA              |
| Municipal Water Area                         |              | 7173 PACKER DR NE                               | Semi-Annual                   | 6/13/2022                       | 8/3/2020              | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7210 PACKER DR NE                               | Annual                        | 12/9/2021                       | 12/14/2020            | NA<br>2/22/2022   | NA<br>NA              |
| Municipal Water Area                         |              | 7229 PACKER DR NE                               | Semi-Annual                   | 6/15/2022                       | 7/30/2020             | 2/22/2022         | NA<br>NA              |
| Municipal Water Area                         |              | 7157 PACKER WOODS DR NE                         | Semi-Annual                   | 1/6/2023                        | 11/20/2020            | 3/16/2022         | NA<br>NA              |
| Municipal Water Area Municipal Water Area    | 1            | 7171 PACKER WOODS DR NE<br>7045 PINE HILL DR NE | Semi-Annual                   | 6/16/2022                       | 1/4/2021              | 3/18/2022         | NA<br>NA              |
|  |              |   | Semi-Annual                   | 11/15/2021                      | 7/30/2020             | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7060 PINE HILL DR NE                            | Semi-Annual                   | 11/11/2021                      | 11/19/2020            | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7061 PINE HILL DR NE<br>7105 PINE HILL DR NE    | Semi-Annual                   | 9/1/2021                        | 8/14/2020             |                   | NA<br>NA              |
| Municipal Water Area                         |              |   | Semi-Annual                   | 12/28/2021<br>10/21/2021        | 7/8/2020<br>2/9/2021  | 2/9/2022          | NA<br>NA              |
| Municipal Water Area<br>Municipal Water Area |              | 7125 PINE HILL DR NE<br>7126 PINE HILL DR NE    | Semi-Annual<br>Semi-Annual    | 9/15/2021                       | 6/30/2020             | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         | 1            | 7143 PINE HILL DR NE                            | Semi-Annual                   | 1/24/2022                       | NA                    | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7211 PINE HILL DR NE                            | Semi-Annual                   | 1/7/2022                        | 8/7/2020              | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7220 PINE HILL DR NE                            | Annual                        | 12/13/2021                      | 6/26/2020             | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7235 PINE HILL DR NE                            | Semi-Annual                   | 12/13/2021                      | 7/28/2020             | NA<br>NA          | NA<br>NA              |
| Municipal Water Area                         |              | 7758 PINE ISLAND CT NE                          | Semi-Annual                   | 11/22/2023                      | 6/19/2020             | 1/24/2022         | 5/3/2023              |
| ividilicipai vvatel Aled                     | +11003300041 | 1130 FINE ISLAND OF INE                         | Jeilli-Alliludi               | 11/22/2023                      | 0/13/2020             | 1/24/2022         | 3/3/2023              |

| Area Type                             | PPN          | Address                 | Former Monitoring<br>Interval | Municipal Water Connection Date | First GAC Change Date | Second GAC Change<br>Date | Third GAC Change Date |
|---------------------------------------|--------------|-------------------------|-------------------------------|---------------------------------|-----------------------|---------------------------|-----------------------|
| Municipal Water Area                  | 411005300043 |                         | Semi-Annual                   | 10/4/2023                       | 5/3/2022              | 10/5/2023                 | NA                    |
| Municipal Water Area                  | 411008200029 |                         | Semi-Annual                   | 12/16/2020                      | 8/13/2020             | NA                        | NA NA                 |
| Municipal Water Area                  |              | 7546 PINE ISLAND DR NE  | Semi-Annual                   | Pending                         | 5/3/2022              | Scheduled                 | NA NA                 |
| Municipal Water Area                  | 411010352010 |                         | Quarterly                     | 12/13/2021                      | 5/18/2020             | NA                        | NA<br>NA              |
| · · · · · · · · · · · · · · · · · · · | 411010332010 |                         | · '                           |                                 |                       | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  |              |                         | Quarterly                     | 11/9/2021                       | 5/12/2020             |                           | NA<br>NA              |
| Municipal Water Area                  | 411010353017 |                         | Quarterly                     | 5/12/2022                       | 5/11/2020             | 3/22/2022                 |                       |
| Municipal Water Area                  | 411010353016 |                         | Semi-Annual                   | 1/13/2022                       | 2/2/2021              | NA                        | NA<br>NA              |
| Municipal Water Area                  |              | 6881 PIXLEY AVE NE      | Quarterly                     | 10/26/2021                      | 7/7/2020              | NA                        | NA<br>                |
| Municipal Water Area                  | 411010353015 |                         | Semi-Annual                   | 11/18/2021                      | 8/31/2020             | NA                        | NA                    |
| Municipal Water Area                  |              | 6918 PIXLEY AVE NE      | Semi-Annual                   | 10/26/2021                      | 11/24/2020            | NA                        | NA                    |
| Municipal Water Area                  | 411010353003 |                         | Semi-Annual                   | 1/6/2022                        | 8/10/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411010353020 |                         | Semi-Annual                   | 1/4/2022                        | 7/31/2020             | 3/2/2022                  | NA                    |
| Municipal Water Area                  |              | 6990 PIXLEY AVE NE      | Semi-Annual                   | 10/18/2021                      | 7/8/2020              | NA                        | NA                    |
| Municipal Water Area                  |              | 2345 POST DR NE         | Semi-Annual                   | 10/22/2020                      | 9/1/2020              | NA                        | NA                    |
| Municipal Water Area                  |              | 2374 POST DR NE         | Semi-Annual                   | 12/16/2020                      | 6/18/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411015451005 | 6170 ROGUE LN NE        | Annual                        | 11/29/2023                      | 6/29/2020             | 2/4/2022                  | NA                    |
| Municipal Water Area                  | 411015451030 | 6194 ROGUE LN NE        | Semi-Annual                   | 11/28/2023                      | 8/4/2020              | 3/23/2022                 | Declined              |
| Municipal Water Area                  | 411016476021 | 2317 ROGUE RIVER RD NE  | Semi-Annual                   | 11/19/2020                      | 6/22/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411016476041 | 2345 ROGUE RIVER RD NE  | Semi-Annual                   | 11/2/2020                       | 7/20/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411016476052 | 2367 ROGUE RIVER RD NE  | Semi-Annual                   | 11/16/2020                      | 5/21/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411016476026 | 2377 ROGUE RIVER RD NE  | Semi-Annual                   | 10/30/2020                      | 6/19/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411015351044 | 2461 ROGUE RIVER RD NE  | Semi-Annual                   | Pending                         | 6/10/2020             | 4/26/2022                 | 9/28/2023             |
| Municipal Water Area                  | 411015376069 | 2739 ROGUE RIVER RD NE  | Semi-Annual                   | 12/18/2020                      | 6/10/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411015376044 | 2791 ROGUE RIVER RD NE  | Semi-Annual                   | 11/2/2023                       | 7/28/2020             | 3/1/2022                  | 8/11/2023             |
| Municipal Water Area                  | 411015376047 | 2803 ROGUE RIVER RD NE  | Semi-Annual                   | 12/20/2023                      | 6/26/2020             | 3/18/2022                 | 8/11/2023             |
| Municipal Water Area                  | 411015376032 | 2805 ROGUE RIVER RD NE  | Quarterly                     | 11/8/2023                       | 5/6/2020              | 3/18/2022                 | 5/5/2023              |
| Municipal Water Area                  | 411015376050 |                         | Semi-Annual                   | 11/20/2023                      | 1/18/2021             | 3/11/2022                 | NA NA                 |
| Municipal Water Area                  | 411015376051 |                         | Semi-Annual                   | 11/13/2023                      | 8/13/2020             | 2/11/2022                 | 6/19/2023             |
| Municipal Water Area                  | 411015376029 |                         | Semi-Annual                   | 11/20/2023                      | 5/21/2020             | 3/21/2022                 | NA                    |
| Municipal Water Area                  | 410634227064 |                         | Quarterly                     | 7/27/2020                       | 5/11/2020             | NA                        | NA                    |
| Municipal Water Area                  | 410634227063 |                         | Monthly                       | 7/16/2020                       | 4/23/2020             | NA                        | NA NA                 |
| Municipal Water Area                  |              | 2972 ROYAL HANNAH DR NE | Quarterly                     | 7/15/2020                       | 5/12/2020             | NA                        | NA NA                 |
| Municipal Water Area                  |              | 2975 ROYAL HANNAH DR NE | Monthly                       | 9/2/2020                        | 4/15/2020             | NA                        | NA NA                 |
| Municipal Water Area                  |              | 2988 ROYAL HANNAH DR NE | Quarterly                     | 7/9/2020                        | 5/8/2020              | NA                        | NA NA                 |
| Municipal Water Area                  |              | 2989 ROYAL HANNAH DR NE | Weekly                        | 7/22/2020                       | NA                    | NA NA                     | NA NA                 |
| Municipal Water Area                  | 410634227067 |                         | Quarterly                     | 7/9/2020                        | NA<br>NA              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  | 410634227060 |                         | Weekly                        | 7/22/2020                       | 4/8/2020              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  | 410634227068 |                         | Quarterly                     | 6/25/2020                       | 4/23/2020             | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  | 410634227068 |                         | · · · · ·                     |                                 |                       | NA<br>NA                  | NA<br>NA              |
| · '                                   |              |                         | Weekly                        | 7/16/2020                       | 4/8/2020              |                           |                       |
| Municipal Water Area                  | 410634227069 |                         | Quarterly                     | 7/16/2020                       | 5/4/2020              | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  |              | 3035 ROYAL HANNAH DR NE | Monthly                       | 7/20/2020                       | 4/15/2020             | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  |              | 3042 ROYAL HANNAH DR NE | Monthly                       | 7/22/2020                       | NA<br>5 (40 (2020     | NA                        | NA<br>NA              |
| Municipal Water Area                  |              | 3056 ROYAL HANNAH DR NE | Quarterly                     | 7/15/2020                       | 5/19/2020             | NA<br>NA                  | NA<br>NA              |
| Municipal Water Area                  |              | 3070 ROYAL HANNAH DR NE | Monthly                       | 7/14/2020                       | 4/28/2020             | NA                        | NA<br>NA              |
| Municipal Water Area                  |              | 3081 ROYAL HANNAH DR NE | Monthly                       | 5/20/2020                       | NA<br>4 (20 (2020     | NA                        | NA<br>NA              |
| Municipal Water Area                  |              | 3099 ROYAL HANNAH DR NE | Quarterly                     | 8/24/2020                       | 4/20/2020             | NA                        | NA<br>                |
| Municipal Water Area                  |              | 9210 SAG HARBOR CT NE   | Semi-Annual                   | 10/5/2022                       | 11/25/2020            | 3/29/2022                 | NA<br>- /- /          |
| Municipal Water Area                  |              | 9242 SAG HARBOR CT NE   | Semi-Annual                   | 11/1/2023                       | 8/7/2020              | 4/21/2022                 | 8/9/2023              |
| Municipal Water Area                  | 410634227033 |                         | Semi-Annual                   | 7/21/2020                       | NA                    | NA                        | NA                    |
| Municipal Water Area                  |              | 2983 SIR CHARLES DR NE  | Semi-Annual                   | 6/24/2020                       | NA                    | NA                        | NA                    |
| Municipal Water Area                  |              | 2989 SIR CHARLES DR NE  | Semi-Annual                   | 7/27/2020                       | NA                    | NA                        | NA                    |
| Municipal Water Area                  |              | 3012 SIR CHARLES DR NE  | Quarterly                     | 7/21/2020                       | 5/7/2020              | NA                        | NA                    |
| Municipal Water Area                  |              | 3024 SIR CHARLES DR NE  | Semi-Annual                   | 7/27/2020                       | NA                    | NA                        | NA                    |
| Municipal Water Area                  | 410634227026 | 3050 SIR CHARLES DR NE  | Semi-Annual                   | 10/5/2020                       | NA                    | NA                        | NA                    |
| Municipal Water Area                  | 410634227025 | 3062 SIR CHARLES DR NE  | Monthly                       | 6/17/2020                       | 4/15/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411009428001 | 2241 SPRUCEWOOD CT NE   | Semi-Annual                   | 12/23/2021                      | 7/27/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411009428002 | 2250 SPRUCEWOOD CT NE   | Semi-Annual                   | 1/11/2022                       | 6/24/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411009428004 | 2265 SPRUCEWOOD CT NE   | Semi-Annual                   | 11/2/2021                       | 6/24/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411009429002 | 7079 SPRUCEWOOD DR NE   | Semi-Annual                   | 11/5/2021                       | 7/10/2020             | NA                        | NA                    |
| Municipal Water Area                  | 411004127010 | 2020 SQUIREWOOD CT NE   | Annual                        | 7/25/2023                       | 8/18/2020             | 3/30/2022                 | NA                    |
|                                       |              |                         |                               |                                 |                       |                           | •                     |
| Municipal Water Area                  | 411004127013 | 2021 SQUIREWOOD CT NE   | Semi-Annual                   | 10/13/2023                      | Attempted to Schedule | Attempted to Schedule     | NA                    |

| _                    |              |                           | Former Monitoring | Municipal Water | First GAC Change Date | Second GAC Change     | Third GAC Change Date |
|----------------------|--------------|---------------------------|-------------------|-----------------|-----------------------|-----------------------|-----------------------|
| Area Type            | PPN          | Address                   | Interval          | Connection Date |                       | Date                  |                       |
| Municipal Water Area | 411004127011 | 2050 SQUIREWOOD CT NE     | Semi-Annual       | 7/31/2023       | 6/17/2020             | 1/28/2022             | NA                    |
| Municipal Water Area | 411004127008 |                           | Semi-Annual       | 11/9/2023       | 7/14/2020             | 5/6/2022              | 10/2/2023             |
| Municipal Water Area |              | 8215 SQUIREWOOD DR NE     | Semi-Annual       | 9/27/2023       | 7/31/2020             | 3/2/2022              | 8/18/2023             |
| Municipal Water Area |              | 8239 SQUIREWOOD DR NE     | Semi-Annual       | 7/26/2023       | 1/13/2021             | 3/11/2022             | NA                    |
| Municipal Water Area |              | 8250 SQUIREWOOD DR NE     | Semi-Annual       | 8/22/2023       | 12/14/2020            | 3/1/2022              | NA                    |
| Municipal Water Area |              | 8255 SQUIREWOOD DR NE     | Semi-Annual       | 8/16/2023       | 8/27/2020             | 5/6/2022              | NA                    |
| Municipal Water Area | 411004127004 |                           | Semi-Annual       | 7/26/2023       | 2/14/2022             | NA                    | NA                    |
| Municipal Water Area | 411004127003 | 8303 SQUIREWOOD DR NE     | Semi-Annual       | 9/28/2023       | 6/24/2020             | Attempted to Schedule | Attempted to Schedule |
| Municipal Water Area | 411004127002 | 8359 SQUIREWOOD DR NE     | Semi-Annual       | 7/7/2023        | 6/17/2020             | 1/21/2022             | NA                    |
| Municipal Water Area | 411004127001 | 8375 SQUIREWOOD DR NE     | Annual            | 8/16/2023       | 7/1/2020              | 4/18/2022             | NA                    |
| Municipal Water Area | 410635351007 | 3221 STONERIDGE DR NE     | Semi-Annual       | 6/25/2021       | 2/9/2021              | NA                    | NA                    |
| Municipal Water Area | 410635351008 | 3232 STONERIDGE DR NE     | Quarterly         | 7/9/2021        | 5/13/2020             | NA                    | NA                    |
| Municipal Water Area | 410635351006 | 3233 STONERIDGE DR NE     | Semi-Annual       | 7/16/2021       | 7/30/2020             | NA                    | NA                    |
| Municipal Water Area | 410635351009 | 3256 STONERIDGE DR NE     | Quarterly         | 8/19/2021       | 5/14/2020             | NA                    | NA                    |
| Municipal Water Area | 410635351005 | 3261 STONERIDGE DR NE     | Quarterly         | 8/4/2021        | 7/1/2020              | NA                    | NA                    |
| Municipal Water Area | 410635351010 | 3284 STONERIDGE DR NE     | Semi-Annual       | 6/29/2021       | 12/14/2020            | NA                    | NA                    |
| Municipal Water Area | 410635351003 | 3313 STONERIDGE DR NE     | Semi-Annual       | 6/29/2021       | 8/5/2020              | NA                    | NA                    |
| Municipal Water Area |              | 3343 STONERIDGE DR NE     | Semi-Annual       | 8/27/2021       | 7/15/2020             | NA                    | NA                    |
| Municipal Water Area | 410635351013 | 3380 STONERIDGE DR NE     | Semi-Annual       | 7/1/2021        | 8/11/2020             | NA                    | NA                    |
| Municipal Water Area |              | 3383 STONERIDGE DR NE     | Semi-Annual       | 7/27/2021       | 8/20/2020             | NA                    | NA NA                 |
| Municipal Water Area |              | 7299 TERRIE LYNN DR NE    | Semi-Annual       | 12/10/2021      | 7/22/2020             | NA NA                 | NA NA                 |
| Municipal Water Area | 1            | 7318 TERRIE LYNN DR NE    | Quarterly         | 12/8/2021       | 4/22/2020             | NA NA                 | NA NA                 |
| Municipal Water Area | +            | 7325 TERRIE LYNN DR NE    | Semi-Annual       | 12/9/2021       | 6/26/2020             | NA<br>NA              | NA NA                 |
| Municipal Water Area |              | 7336 TERRIE LYNN DR NE    | Quarterly         | 12/8/2021       | 4/16/2020             | NA<br>NA              | NA<br>NA              |
| Municipal Water Area |              | 7339 TERRIE LYNN DR NE    | · '               | 12/7/2021       | 6/10/2020             | NA<br>NA              | NA<br>NA              |
| Municipal Water Area |              |                           | Semi-Annual       |                 |                       | NA<br>NA              | NA<br>NA              |
|                      |              | 7347 TERRIE LYNN DR NE    | Quarterly         | 12/22/2021      | 6/18/2021             |                       |                       |
| Municipal Water Area |              | 7354 TERRIE LYNN DR NE    | Monthly           | 12/9/2021       | 4/24/2020             | Declined              | NA<br>NA              |
| Municipal Water Area |              | 7355 TERRIE LYNN DR NE    | Quarterly         | 12/7/2021       | 5/22/2020             | NA                    | NA<br>                |
| Municipal Water Area | 411009251010 |                           | Quarterly         | 9/28/2021       | 5/18/2020             | NA                    | NA                    |
| Municipal Water Area | 411010303007 |                           | Semi-Annual       | 12/6/2021       | 12/4/2020             | NA                    | NA                    |
| Municipal Water Area | 411010353002 |                           | Semi-Annual       | 2/7/2022        | 8/12/2020             | 3/15/2022             | NA                    |
| Municipal Water Area | 411010326002 |                           | Semi-Annual       | 10/25/2021      | 6/19/2020             | NA                    | NA                    |
| Municipal Water Area | 411010376003 |                           | Semi-Annual       | 6/14/2022       | 7/22/2020             | 2/9/2022              | NA                    |
| Municipal Water Area |              | 2635 VAN DAM DR NE        | Semi-Annual       | 10/25/2021      | 7/13/2020             | NA                    | NA                    |
| Municipal Water Area |              | 2700 VAN DAM DR NE        | Semi-Annual       | 5/12/2022       | 8/13/2020             | NA                    | NA                    |
| Municipal Water Area | 411010376011 |                           | Semi-Annual       | 5/2/2022        | 6/18/2020             | NA                    | NA                    |
| Municipal Water Area | 411010326024 | 2755 VAN DAM DR NE        | Semi-Annual       | 12/9/2021       | 7/22/2020             | NA                    | NA                    |
| Municipal Water Area | 411010376015 | 2800 VAN DAM DR NE        | Semi-Annual       | 12/14/2021      | 7/28/2020             | NA                    | NA                    |
| Municipal Water Area | 411010327001 | 2920 VAN DAM DR NE        | Semi-Annual       | 12/2/2021       | 7/27/2020             | NA                    | NA                    |
| Municipal Water Area | 411015201024 | 6688 WILDWOOD CREEK DR NE | Quarterly         | 10/13/2021      | 5/12/2020             | NA                    | NA                    |
| Municipal Water Area | 411015201023 | 6724 WILDWOOD CREEK DR NE | Quarterly         | 11/18/2021      | 6/25/2020             | NA                    | NA                    |
| Municipal Water Area | 411015201017 | 6790 WILDWOOD CREEK DR NE | Semi-Annual       | 10/18/2021      | 8/12/2020             | NA                    | NA                    |
| Municipal Water Area | 411010376019 | 6800 WILDWOOD CREEK DR NE | Quarterly         | 10/11/2021      | 5/13/2020             | NA                    | NA                    |
| Municipal Water Area | 411010376024 | 6814 WILDWOOD CREEK DR NE | Quarterly         | 10/7/2021       | 5/14/2020             | NA                    | NA                    |
| Municipal Water Area | 411010376021 | 6815 WILDWOOD CREEK DR NE | Semi-Annual       | 1/11/2022       | 8/5/2020              | NA                    | NA                    |
| Municipal Water Area | 411010376022 | 6826 WILDWOOD CREEK DR NE | Quarterly         | 12/14/2021      | 5/28/2020             | NA                    | NA                    |
| Municipal Water Area | 411010377005 | 6833 WILDWOOD CREEK DR NE | Semi-Annual       | 12/16/2021      | 12/18/2020            | NA                    | NA                    |
| Municipal Water Area | 411010377004 | 6840 WILDWOOD CREEK DR NE | Quarterly         | 10/19/2021      | 5/12/2020             | NA                    | NA                    |
| Municipal Water Area |              | 6859 WILDWOOD CREEK DR NE | Semi-Annual       | 10/6/2021       | 7/2/2020              | NA                    | NA                    |
| Municipal Water Area | 411010377003 | 6868 WILDWOOD CREEK DR NE | Semi-Annual       | 10/5/2021       | 6/19/2020             | NA                    | NA                    |
| Municipal Water Area | 411010377002 |                           | Quarterly         | 10/19/2021      | 4/22/2020             | NA                    | NA                    |
| Municipal Water Area |              | 6900 WILDWOOD CREEK DR NE | Quarterly         | 10/5/2021       | 5/14/2020             | NA                    | NA                    |
| Municipal Water Area |              | 2540 WINDING RIDGE TRL NE | Semi-Annual       | 6/19/2023       | 7/22/2020             | 6/3/2022              | NA NA                 |
| Municipal Water Area |              | 2580 WINDING RIDGE TRL NE | Semi-Annual       | 6/7/2023        | 6/10/2020             | 4/19/2022             | NA NA                 |
| Municipal Water Area |              | 8415 WINDSTONE DR NE      | Semi-Annual       | 7/1/2021        | 9/2/2020              | NA                    | NA<br>NA              |
| Municipal Water Area |              | 8440 WINDSTONE DR NE      | Semi-Annual       | 7/1/2021        | 7/23/2020             | NA<br>NA              | NA<br>NA              |
| Municipal Water Area |              | 8443 WINDSTONE DR NE      | Semi-Annual       | 7/21/2021       | 6/16/2020             | NA<br>NA              | NA<br>NA              |
|                      |              | 8475 WINDSTONE DR NE      | 1                 | 7/7/2021        |                       |                       |                       |
| Municipal Water Area |              |                           | Quarterly         |                 | 12/14/2020            | NA<br>NA              | NA<br>NA              |
| Municipal Water Area |              | 8496 WINDSTONE DR NE      | Semi-Annual       | 7/13/2021       | 7/8/2020              | NA<br>NA              | NA<br>NA              |
| Municipal Water Area |              | 8497 WINDSTONE DR NE      | Quarterly         | 8/20/2021       | 5/19/2020             | NA<br>NA              | NA<br>NA              |
| Municipal Water Area | 410035353005 | 8500 WINDSTONE DR NE      | Semi-Annual       | 10/29/2021      | Attempted to Schedule | NA                    | NA                    |

|                      |              |                             | Former Monitoring | Municipal Water        | First CAC Charges Date | Second GAC Change      | Third CAC Charge Date  |
|----------------------|--------------|-----------------------------|-------------------|------------------------|------------------------|------------------------|------------------------|
| Area Type            | PPN          | Address                     | Interval          | <b>Connection Date</b> | First GAC Change Date  | Date                   | Third GAC Change Date  |
| Municipal Water Area | 410635354004 | 8435 WOLVEN AVE NE          | Semi-Annual       | 7/7/2021               | 7/16/2020              | NA                     | NA                     |
| Municipal Water Area | 410635376004 | 8500 WOLVEN AVE NE          | Semi-Annual       | 7/1/2021               | 5/26/2020              | NA                     | NA                     |
| Municipal Water Area | 410635354006 | 8515 WOLVEN AVE NE          | Semi-Annual       | 7/6/2021               | 4/2/2020               | NA                     | NA                     |
| Municipal Water Area | 410635376002 | 8520 WOLVEN AVE NE          | Semi-Annual       | 7/28/2021              | 5/12/2020              | NA                     | NA                     |
| Municipal Water Area | 410635354001 | 8535 WOLVEN AVE NE          | Semi-Annual       | 12/8/2021              | 12/3/2020              | NA                     | NA                     |
| Municipal Water Area | 410635376003 | 8540 WOLVEN AVE NE          | Semi-Annual       | 11/12/2021             | 8/3/2020               | NA                     | NA                     |
| Municipal Water Area | 410635326015 | 8600 WOLVEN AVE NE          | Semi-Annual       | 8/17/2021              | 6/17/2020              | NA                     | NA                     |
| Municipal Water Area | 410635326014 | 8620 WOLVEN AVE NE          | Semi-Annual       | 12/7/2021              | 7/2/2020               | NA                     | NA                     |
| Municipal Water Area | 410635301009 | 8655 WOLVEN AVE NE          | Semi-Annual       | 7/2/2021               | 6/30/2020              | NA                     | NA                     |
| Municipal Water Area | 410635301003 | 8685 WOLVEN AVE NE          | Semi-Annual       | 8/23/2021              | 6/22/2020              | NA                     | NA                     |
| Municipal Water Area | 410635301017 | 8767 WOLVEN AVE NE          | Semi-Annual       | 7/14/2021              | 4/1/2020               | NA                     | NA                     |
| Municipal Water Area | 410635100015 | 8944 WOLVEN AVE NE          | Semi-Annual       | 11/30/2021             | 7/2/2020               | NA                     | NA                     |
| Filter Area          | 410626300021 | 3535 11 MILE RD NE          | Semi-Annual       | NA                     | 8/11/2020              | 9/1/2022               | Attempting to Schedule |
| Filter Area          | 410635201012 | 3616 11 MILE RD NE          | Quarterly         | NA                     | 5/16/2021              | 1/31/2022              | 45205                  |
| Filter Area          | 411003351004 | 7619 BELMONT AVE NE         | Semi-Annual       | NA                     | 8/17/2020              | 8/19/2022              | 45321                  |
| Filter Area          | 411003353001 | 7781 BELMONT AVE NE         | Semi-Annual       | NA                     | 8/18/2020              | 2/21/2022              | 45085                  |
| Filter Area          | 411010101014 | 7530 CLOUDBERRY LN NE       | Semi-Annual       | NA                     | 8/31/2020              | 6/8/2022               | 45218                  |
| Filter Area          | 411016103007 | 1650 CORNERSTONE CT NE      | Semi-Annual       | NA                     | 8/10/2020              | 8/19/2022              | Attempting to Schedule |
| Filter Area          | 411010151006 | 7305 HICKORY TRL NE         | Semi-Annual       | NA                     | 7/1/2020               | 6/9/2022               | Attempting to Schedule |
| Filter Area          | 411010151004 | 7307 HICKORY TRL NE         | Semi-Annual       | NA                     | 9/21/2022              | Attempting to Schedule | NA                     |
| Filter Area          | 411016201017 | 2153 POST DR NE             | Semi-Annual       | NA                     | 8/17/2020              | 6/8/2022               | 45215                  |
| Filter Area          | 411010101008 | 2525 ROLLING MEADOW DR NE   | Semi-Annual       | NA                     | 8/17/2020              | 8/24/2022              | Attempting to Schedule |
| Filter Area          | 411010101009 | 7550 STEEPLEBUSH LN NE      | Semi-Annual       | NA                     | 8/18/2020              | 6/29/2022              | 45217                  |
| Filter Area          | 411004427001 | 2242 STRAWBERRY FARMS ST NE | Semi-Annual       | NA                     | 9/8/2020               | 8/24/2022              | 45309                  |
| Filter Area          | 411003352006 | 2430 STRAWBERRY FARMS ST NE | Semi-Annual       | NA                     | 12/18/2020             | 4/25/2022              | Attempting to Schedule |
| Filter Area          | 411003352007 | 2450 STRAWBERRY FARMS ST NE | Semi-Annual       | NA                     | 8/18/2020              | 5/24/2022              | Attempting to Schedule |
| Filter Area          | 411003352003 | 2495 STRAWBERRY FARMS ST NE | Semi-Annual       | NA                     | 8/19/2022              | Attempted to Schedule  | Attempting to Schedule |
| Filter Area          | 411003352011 | 2560 STRAWBERRY FARMS ST NE | Semi-Annual       | NA                     | 8/26/2020              | 6/8/2022               | Attempting to Schedule |
| Filter Area          | 411004427017 | 7857 STRAWBERRY LN NE       | Semi-Annual       | NA                     | 8/17/2020              | 8/23/2023              | NA                     |
| Filter Area          | 410625301040 | 3823 WHIRLWIND DR NE        | Quarterly         | NA                     | 6/20/2022              | 10/16/2023             | NA                     |
| Filter Area          | 410625301039 | 3826 WHIRLWIND DR NE        | Quarterly         | NA                     | 5/20/2020              | 7/3/2023               | Attempting to Schedule |

#### Notes

<sup>1)</sup> Addresses on this list are in Municipal Water Areas per the Consent Decree or are in the Filter Areas per the Consent Decree where known PFOS+PFOA. concentrations were greater than 10 parts per trillion (ppt) and have POET filters installed.

<sup>2)</sup> Abbreviations Include:

<sup>&</sup>quot;GAC" indicates granular activated carbon.

<sup>&</sup>quot;NA" indicates not applicable.

<sup>&</sup>quot;Bayes" indicates POET was provided by Bayes Water Treatment.

<sup>&</sup>quot;Gordon" indicates POET was provided by Gordon Water Service.

| Commonstration   Comm | Area Type                | PPN          | Address                   | Municipal Water | 2020        | 2021      | 2022                                  | 2023                 |
|--|--------------------------|--------------|---------------------------|-----------------|-------------|-----------|---------------------------------------|----------------------|
| Municipal Water Area  ### (1100410000) 1700 10 MR ER DN E  ### (11004100000) 1700 10 MR ER DN E  ### (11004100000) 1700 10 MR ER DN E  ### (11004100000000000000000000000000000000  |                          |              |                           |                 |             |           |                                       | Filter Delivery Date |
| Manipal Water Area   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   410062800100   2022   1 MILE RD NE   12/12/2022   5/12/2020   4/9/2021   NA   NA   NA   NA   NA   NA   NA   N   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   | · ·                      |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   | · ·                      |              |                           |                 |             |           |                                       |                      |
| Manifogal Water Area   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   |                          |              |                           |                 |             |           |                                       |                      |
| Numicipal Water Area   #11004200056   2200 BRENT DR RE   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   #11004200032   2109 BRITTANY OR NE  |                          |              |                           |                 |             | , , ,     |                                       |                      |
| Municipal Water Area   #11004200033   2198 BRITTANY OR NE  |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   MINOSQUOSIA 2173 BRITTANY OR NE   3/22/2021   5/12/2000   A/3/2021   5/10/2022   NA   NA   NA   NA   NA   NA   NA   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   #1009100015   #215 CHANDLER OR NE   | · ·                      |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   |                          |              |                           |                 | 5/18/2020   |           |                                       | INA                  |
| Municipal Water Area   |                          |              |                           |                 | 5/19/2020   |           |                                       | NA                   |
| Municipal Water Area   A11002100013   7485 CHANDLER DR NE  |                          |              |                           |                 |             |           |                                       |                      |
| Numicipal Water Area   A11002200038   837 CHILDSDALE AVE NE   11/16/2023   5/18/2020   4/12/2021   5/9/2022   4/25/2023   4/12/2021   5/9/2022   4/25/2023   4/2 |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   M1002200078   M38   M3 CHILDSDALE AVE NE   11/16/2013   5/18/2020   4/12/2011   5/9/2022   4/25/2023   Municipal Water Area   M10022000678   M38   M3 | · ·                      |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411002200053   8339 CHILDSDALE AVE NE   11/16/2023   5/18/2020   4/12/2021   5/9/2022   4/25/2023   Municipal Water Area   411002200058   8336 CHILDSDALE AVE NE   11/16/2023   5/18/2020   4/12/2021   5/9/2022   4/25/2023   Municipal Water Area   411002200058   8395 CHILDSDALE AVE NE   2/8/2024   6/30/2020**   NA**   NA | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411002200068   3343 CHILDSDALE AVE NE   11/16/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   4/12/20/21   5/9/20/22   4/25/20/3   5/18/20/20   5/18/2 | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411002200035 8371 CHILDSDALE AVE NE   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411002200059   8395 CHILDSDALE AVE NE   9/5/2023   5/18/2020   A/12/2021   5/9/2022   4/25/2023   Municipal Water Area   411022127019   5684 ETHELWIN AVE NE   12/9/2020   5/18/2020   A/12/2021   5/9/2022   4/25/2023   A/12/2021   A/12/2021   A/12/2022   A/12/2022 |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411022127039   5884 ETHELWIN AVE NE   12/9/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N  |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411021216019   735 ETHELWIN AVE NE   Previously Connected   5/18/2020   4/12/2021   5/19/2022   4/25/2023   Municipal Water Area   41100212127038   S646 ETHELWIN AVE NE   10/30/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N  |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411009200007   320 HERRINGTON AVE NE   8/11/2021   5/18/2020   A/12/2021   NA   NA   NA   Municipal Water Area   4110092000040   7415 HERRINGTON AVE NE   10/12/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411009200040   7415 HERRINGTON AVE NE   8/12/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   4110094200051   7601 HERRINGTON AVE NE   9/22/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451007   7651 HERRINGTON AVE NE   9/17/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451007   7651 HERRINGTON AVE NE   9/17/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451005   7661 HERRINGTON AVE NE   9/17/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N  |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411009200024   7601 HERRINGTON AVE NE   10/12/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451008   7641 HERRINGTON AVE NE   9/12/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451007   7651 HERRINGTON AVE NE   9/12/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451005   7661 HERRINGTON AVE NE   9/15/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004451004   7667 HERRINGTON AVE NE   9/15/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004451004   7720 HERRINGTON AVE NE   9/8/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451010   7747 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004451010   7747 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N  | <u> </u>                 |              |                           |                 |             | NA NA     |                                       |                      |
| Municipal Water Area   411004451008   7631 HERRINGTON AVE NE   9/22/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451007   7651 HERRINGTON AVE NE   9/15/2020   5/18/2020   NA   NA   NA   NA   Municipal Water Area   411004451006   7661 HERRINGTON AVE NE   9/15/2020   5/18/2020   NA   NA   NA   NA   Municipal Water Area   411004451004   7667 HERRINGTON AVE NE   9/15/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004476002   7720 HERRINGTON AVE NE   9/8/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N   | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area   411004451005   7661 HERRINGTON AVE NE   9/15/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004451004   7667 HERRINGTON AVE NE   7/31/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004451010   7747 HERRINGTON AVE NE   9/8/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004451011   7757 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N  | <u> </u>                 |              |                           |                 |             | NA        | NA                                    | NA                   |
| Municipal Water Area   411004451004   7667 HERRINGTON AVE NE   7/31/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004476002   7720 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451011   7757 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451011   7757 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411004200051   8025 HERRINGTON AVE NE   10/28/2020   5/18/2020   NA   NA   NA   NA   NA   NA   NA   N  | Municipal Water Area     | 411004451007 | 7651 HERRINGTON AVE NE    | 9/17/2020       | 5/18/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area   411004476002   7720 HERRINGTON AVE NE   9/8/2020   5/18/2020   NA   | Municipal Water Area     | 411004451005 | 7661 HERRINGTON AVE NE    | 9/15/2020       | 5/18/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area   411004451010   7747 HERRINGTON AVE NE   8/14/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004451011   7757 HERRINGTON AVE NE   10/28/2020   5/18/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004200051   8025 HERRINGTON AVE NE   11/3/2022   5/12/2020   4/9/2021   5/10/2022   NA   Municipal Water Area   411004200035   8031 HERRINGTON AVE NE   5/1/2023   5/12/2020   4/9/2021   5/10/2022   4/25/2023   Municipal Water Area   411004200046   8092 HERRINGTON AVE NE   5/1/2022   5/18/2020   4/9/2021   5/10/2022   A/25/2023   Municipal Water Area   411004200046   8092 HERRINGTON AVE NE   10/21/2022   5/18/2020   4/9/2021   5/10/2022   NA   Municipal Water Area   411005400037   1339 HOUSE ST NE   11/19/2020   5/12/2020   NA   NA   NA   NA   NA   Municipal Water Area   411005400036   1360 HOUSE ST NE   2/10/2021   5/12/2020   NA   NA   NA   NA   Municipal Water Area   411005400021   1499 HOUSE ST NE   8/4/2020   5/12/2020   NA   NA   NA   NA   NA   Municipal Water Area   411005400025   1590 HOUSE ST NE   9/9/2020   5/12/2020   NA   NA   NA   NA   NA   Municipal Water Area   411005400025   1597 HOUSE ST NE   9/28/2020   Municipal Water Area   411005400031   1600 HOUSE ST NE   8/21/2020   5/12/2020   NA   NA   NA   NA   NA   NA   Municipal Water Area   411005400030   1617 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA   NA   Municipal Water Area   411005400030   1620 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA   NA   Municipal Water Area   411004300045   1620 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA   NA   NA   NA   N  | Municipal Water Area     | 411004451004 | 7667 HERRINGTON AVE NE    | 7/31/2020       | 5/18/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area   411004451011   7757 HERRINGTON AVE NE   10/28/2020   5/18/2020   NA   NA   NA   NA   Municipal Water Area   411004200051   8025 HERRINGTON AVE NE   11/3/2022   5/12/2020   4/9/2021   5/10/2022   NA   Municipal Water Area   411004200035   8081 HERRINGTON AVE NE   5/1/2023   5/12/2020   4/12/2021   5/10/2022   4/25/2023   Municipal Water Area   411004200046   8092 HERRINGTON AVE NE   10/21/2022   5/18/2020   4/12/2021   5/10/2022   A/25/2023   Municipal Water Area   411005400037   339 HOUSE ST NE   11/19/2020   5/12/2020   NA   NA   NA   NA   NA   NA   NA   N   | Municipal Water Area     | 411004476002 | 7720 HERRINGTON AVE NE    | 9/8/2020        | 5/18/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area         411004200051         8025 HERRINGTON AVE NE         11/3/2022         5/12/2020         4/9/2021         5/10/2022         NA           Municipal Water Area         411004200036         8081 HERRINGTON AVE NE         5/1/2023         5/12/2020         4/12/2021         5/10/2022         4/25/2023           Municipal Water Area         411004200046         8092 HERRINGTON AVE NE*         10/21/2022         5/18/2020         4/9/2021         5/10/2022         NA           Municipal Water Area         411004200037         1339 HOUSE ST NE         11/19/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200036         1360 HOUSE ST NE         2/10/2021         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1500 HOUSE ST NE         8/4/2020         5/12/2020         NA         NA         NA         NA           Municipal Water Area         411005400025         1507 HOUSE ST NE         9/9/2020         5/12/2020         NA         NA         NA         NA           Municipal Water Area         411005400035         1507 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA         NA           Municipal Water Ar   | Municipal Water Area     | 411004451010 | 7747 HERRINGTON AVE NE    | 8/14/2020       | 5/18/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area   411004200035   8081 HERRINGTON AVE NE   5/1/2023   5/12/2020   4/12/2021   5/10/2022   4/25/2023     Municipal Water Area   411004200046   8092 HERRINGTON AVE NE*   10/21/2022   5/18/2020   4/9/2021   5/10/2022   NA     Municipal Water Area   411005400037   1339 HOUSE ST NE   11/19/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411008400036   1360 HOUSE ST NE   2/10/2021   5/12/2020   NA   NA   NA   NA   NA     Municipal Water Area   411008400024   1499 HOUSE ST NE   8/4/2020   5/12/2020   NA   NA   NA   NA   NA     Municipal Water Area   411005400025   1590 HOUSE ST NE   9/9/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411005400025   1597 HOUSE ST NE   9/28/2020   NA   NA   NA   NA     Municipal Water Area   411005400025   1597 HOUSE ST NE   8/21/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411005400025   1597 HOUSE ST NE   8/21/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411005400025   1620 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   41100400063   1620 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA   NA     Municipal Water Area   411004300065   1654 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300060   1654 HOUSE ST NE   8/25/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300061   1655 HOUSE ST NE   9/23/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300061   1656 HOUSE ST NE   9/23/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300051   1682 HOUSE ST NE   10/20/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300052   1698 HOUSE ST NE   10/20/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300052   1698 HOUSE ST NE   9/21/2020   5/12/2020   NA   NA   NA   NA     Municipal Water Area   411004300052   1698 HOUSE ST NE   9/21/2020   5/12/2020   NA   NA   NA   NA   NA     Municipal Water Area   411004400101   2115 | Municipal Water Area     | 411004451011 | 7757 HERRINGTON AVE NE    | 10/28/2020      | 5/18/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area         411004200046         8092 HERRINGTON AVE NE*         10/21/2022         5/18/2020         4/9/2021         5/10/2022         NA           Municipal Water Area         411005400037         1339 HOUSE ST NE         11/19/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200036         1360 HOUSE ST NE         2/10/2021         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1500 HOUSE ST NE         8/4/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1500 HOUSE ST NE         9/9/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1597 HOUSE ST NE         9/28/2020         No Longer Using as of 5/5/2020           Municipal Water Area         411009100043         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA   | Municipal Water Area     | 411004200051 | 8025 HERRINGTON AVE NE    | 11/3/2022       | 5/12/2020   | 4/9/2021  | 5/10/2022                             | NA                   |
| Municipal Water Area         411005400037         1339 HOUSE ST NE         11/19/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200036         1360 HOUSE ST NE         2/10/2021         5/12/2020         NA         NA         NA           Municipal Water Area         411005400024         1499 HOUSE ST NE         8/4/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1500 HOUSE ST NE         9/9/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400025         1597 HOUSE ST NE         9/28/2020         No Longer Using as of 5/5/2020           Municipal Water Area         411009100043         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400031         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA   | Municipal Water Area     | 411004200035 | 8081 HERRINGTON AVE NE    | 5/1/2023        | 5/12/2020   | 4/12/2021 | 5/10/2022                             | 4/25/2023            |
| Municipal Water Area         411008200036         1360 HOUSE ST NE         2/10/2021         5/12/2020         NA         NA         NA           Municipal Water Area         411005400024         1499 HOUSE ST NE         8/4/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1500 HOUSE ST NE         9/9/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400025         1597 HOUSE ST NE         9/28/2020         No Longer Using as of 5/5/2020           Municipal Water Area         41100940003         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400030         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         4110043000051         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA  | Municipal Water Area     | 411004200046 | 8092 HERRINGTON AVE NE*   | 10/21/2022      | 5/18/2020   | 4/9/2021  | 5/10/2022                             | NA                   |
| Municipal Water Area         411005400024         1499 HOUSE ST NE         8/4/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411008200015         1500 HOUSE ST NE         9/9/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400025         1597 HOUSE ST NE         9/28/2020         No Longer Using as of 5/5/2020           Municipal Water Area         411009100043         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300003         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA  | Municipal Water Area     | 411005400037 | 1339 HOUSE ST NE          | 11/19/2020      | 5/12/2020   | NA        | NA                                    | NA                   |
| Municipal Water Area         411008200015         1500 HOUSE ST NE         9/9/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400025         1597 HOUSE ST NE         9/28/2020         No Longer Using as of 5/5/2020           Municipal Water Area         411009100043         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300030         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1624 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300001         1665 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA  | Municipal Water Area     | 411008200036 | 1360 HOUSE ST NE          |                 |             |           | NA                                    | NA                   |
| Municipal Water Area         411005400025         1597 HOUSE ST NE         9/28/2020         No Longer Using as of 5/5/2020           Municipal Water Area         411009100043         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400030         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400011         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA <td><u> </u></td> <td></td> <td></td> <td></td> <td>-, ,</td> <td></td> <td></td> <td></td>   | <u> </u>                 |              |                           |                 | -, ,        |           |                                       |                      |
| Municipal Water Area         411009100043         1600 HOUSE ST NE         8/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400030         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400011         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300053         1850 HOUSE ST NE         8/28/2020         5/12/2020   | <u> </u>                 |              |                           |                 | 5/12/2020   |           |                                       | NA                   |
| Municipal Water Area         411005400030         1617 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300011         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         9/21/2020         5/12/2020   | <u> </u>                 |              |                           | · '             |             |           | · · · · · · · · · · · · · · · · · · · |                      |
| Municipal Water Area         411004300045         1620 HOUSE ST NE         8/25/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400011         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         4106401001         2115 HOUSE ST NE         9/22/2020         5/18/2020   | · ·                      |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411004300060         1654 HOUSE ST NE         8/5/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411005400011         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410643201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411005400011         1655 HOUSE ST NE         9/23/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300049         1664 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410633201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA  | · ·                      |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411004300049         1664 HOUSE ST NE         10/20/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410633201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA  | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411004300051         1682 HOUSE ST NE         10/1/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410633201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411004300052         1698 HOUSE ST NE         8/28/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410633201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA   | · ·                      |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411004300036         1850 HOUSE ST NE         9/21/2020         5/12/2020         NA         NA         NA           Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410633201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411004401001         2115 HOUSE ST NE         9/22/2020         5/18/2020         NA         NA         NA           Municipal Water Area         410633201006         9070 JEWELL AVE NE         9/30/2022         5/12/2020         4/9/2021         5/12/2022         NA   |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area 410633201006 9070 JEWELL AVE NE 9/30/2022 5/12/2020 4/9/2021 5/12/2022 NA   |                          |              |                           |                 |             |           |                                       |                      |
|  | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
|  |                          |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area 410633201005 9090 JEWELL AVE NE 10/5/2022 5/12/2020 4/9/2021 5/12/2022 NA   |                          |              |                           |                 |             |           | ' '                                   |                      |
| Municipal Water Area         411009251017         2055 KORBEN WOODS CT NE         12/15/2021         5/18/2020         4/12/2021         5/12/2022         NA           Municipal Water Area         411009251021         2075 KORBEN WOODS CT NE         12/30/2021         5/18/2020         4/12/2021         NA         NA   | <u> </u>                 |              |                           |                 |             |           |                                       |                      |
| Municipal Water Area         411009251021         2075 KORBEN WOODS CT NE         12/30/2021         5/18/2020         4/12/2021         NA         NA   | iviuilicipai vvatel Alea | 411003231021 | 2073 KORBLIN WOODS CT INE | 12/30/2021      | 3/ 10/ 2020 | 4/12/2021 | INA                                   | INA                  |

2023

### **TABLE 2**POU FILTERS REQUIRING MONITORING Operation and Maintenance of Filters Response Activity Plan

2020

2021

2022

Municipal Water

| Area Type                                   | PPN          | Address  | Connection Date        | Filter Delivery Date   | Filter Delivery Date | Filter Delivery Date       | Filter Delivery Date |
|---|--------------|--|------------------------|------------------------|----------------------|----------------------------|----------------------|
| Municipal Water Area                        | 410634227045 | 8919 LADY LAUREN DR NE                         | 6/8/2020               | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 8922 LADY LAUREN DR NE                         | 7/13/2020              | 5/12/2020              | NA NA                | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 8935 LADY LAUREN DR NE                         | 7/16/2020              | 5/12/2020              | NA<br>NA             | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 9102 LADY LAUREN DR NE                         | 6/29/2020              | 5/12/2020              | NA NA                | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 9108 LADY LAUREN DR NE                         | 7/7/2020               | 5/12/2020              | NA NA                | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 9114 LADY LAUREN DR NE                         | 8/3/2020               | 5/12/2020              | NA<br>NA             | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 9155 LADY LAUREN DR NE                         | 6/5/2020               | 5/12/2020              | NA<br>NA             | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 9193 LADY LAUREN DR NE                         | 6/29/2020              | 5/12/2020              | NA NA                | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 2072 MEEK DR NE                                | 12/9/2021              | 5/18/2020              | 4/12/2021            | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 2147 MEEK DR NE                                | 12/20/2021             | 5/18/2020              | 4/12/2021            | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 6502 NUGGET AVE NE                             | 9/24/2020              | 5/18/2020              | NA                   | NA NA                      | NA NA                |
| Municipal Water Area                        |              | 6515 NUGGET AVE NE                             | 10/22/2020             | 5/18/2020              | NA NA                | NA NA                      | NA                   |
| Municipal Water Area                        |              | 6531 NUGGET AVE NE                             | 11/20/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 7000 PACKER DR NE                              | 12/14/2021             | 5/18/2020              | 4/12/2021            | NA                         | NA                   |
| Municipal Water Area                        |              | 7157 PACKER WOODS DR NE                        | 1/6/2023               | 5/18/2020              | 4/12/2021            | 5/9/2022                   | NA                   |
| Municipal Water Area                        |              | 7060 PINE HILL DR NE                           | 11/11/2021             | 5/18/2020              | 4/12/2021            | NA                         | NA                   |
| Municipal Water Area                        |              | 2345 POST DR NE                                | 10/22/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 2374 POST DR NE                                | 12/16/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 8230 ROGUE RIDGE NE                            | 10/19/2023             | 5/18/2020              | 4/9/2021             | 5/12/2022                  | 4/24/2023            |
| Municipal Water Area                        |              | 2300 ROGUE RIVER RD NE                         | 10/19/2020             | 5/18/2020              | NA NA                | NA                         | NA NA                |
| Municipal Water Area                        |              | 2332 ROGUE RIVER RD NE                         | 11/11/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 2340 ROGUE RIVER RD NE                         | 11/11/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 2364 ROGUE RIVER RD NE                         | 11/11/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411022101024 | 2480 ROGUE RIVER RD NE                         | 9/15/2020              | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411022101039 | 2560 ROGUE RIVER RD NE                         | 10/7/2020              | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411022126036 | 2626 ROGUE RIVER RD NE                         | 1/13/2021              | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411022127069 | 2760 ROGUE RIVER RD NE                         | 12/9/2020              | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411015428028 | 3093 ROGUE RIVER RD NE                         | 1/25/2021              | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411015429009 | 3191 ROGUE RIVER RD NE                         | 12/10/2020             | 5/18/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 411023100007 | 3558 ROGUE RIVER RD NE                         | Previously Connected   | 5/18/2020              | 4/12/2021            | 5/9/2022                   | 4/25/2023            |
| Municipal Water Area                        | 410634227063 | 2963 ROYAL HANNAH DR NE                        | 7/16/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227061 | 2989 ROYAL HANNAH DR NE                        | 7/22/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227060 | 3003 ROYAL HANNAH DR NE                        | 7/22/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227068 | 3016 ROYAL HANNAH DR NE                        | 6/25/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227058 | 3035 ROYAL HANNAH DR NE                        | 7/20/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227070 | 3042 ROYAL HANNAH DR NE                        | 7/22/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227071 | 3056 ROYAL HANNAH DR NE                        | 7/15/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        | 410634227072 | 3070 ROYAL HANNAH DR NE                        | 7/14/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 2982 SIR CHARLES DR NE                         | 7/21/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 2988 SIR CHARLES DR NE                         | 7/14/2020              | 5/12/2020              | NA                   | NA                         | NA                   |
| Municipal Water Area                        |              | 2260 SPRUCEWOOD CT NE                          | 5/18/2022              | 5/18/2020              | 4/12/2021            | 5/12/2022                  | NA                   |
| Municipal Water Area                        |              | 8215 SQUIREWOOD DR NE                          | 9/27/2023              | 5/12/2020              | 4/9/2021             | 5/12/2022                  | 4/24/2023            |
| Municipal Water Area                        |              | 8250 SQUIREWOOD DR NE                          | 8/22/2023              |                        |                      | g as of 5/5/2020           |                      |
| Municipal Water Area                        |              | 3221 STONERIDGE DR NE                          | 6/25/2021              | 5/12/2020              | 4/9/2021             | NA                         | NA                   |
| Municipal Water Area                        |              | 3233 STONERIDGE DR NE                          | 7/16/2021              | 5/12/2020              | 4/9/2021             | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 3284 STONERIDGE DR NE                          | 6/29/2021              | 5/12/2020              | 4/9/2021             | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 3343 STONERIDGE DR NE                          | 8/27/2021              | 5/12/2020              | 4/9/2021             | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 3383 STONERIDGE DR NE                          | 7/27/2021              | 5/12/2020              | 4/9/2021             | NA                         | NA                   |
| Municipal Water Area                        |              | 7347 TERRIE LYNN DR NE                         | 12/22/2021             | 5/18/2020              | 4/12/2021            | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 2566 VAN DAM DR NE                             | 2/7/2022               | 5/18/2020              | 4/12/2021            | NA<br>NA                   | NA NA                |
| Municipal Water Area                        |              | 5875 VERTA DR NE                               | 10/26/2020             | 5/18/2020              | NA<br>4/0/2021       | NA<br>5/12/2022            | NA<br>4/24/2022      |
| Municipal Water Area                        |              | 8331 WATEREDGE DR NE                           | 10/26/2023             | 5/12/2020              | 4/9/2021             | 5/12/2022                  | 4/24/2023            |
| Municipal Water Area                        |              | 8396 WATEREDGE DR NE                           | 11/7/2023              | 5/12/2020              | 4/9/2021             | 5/12/2022                  | 4/24/2023            |
| Municipal Water Area                        |              | 6334 WEST RIVER DR NE                          | 10/8/2020              | E /10 /2020            |                      | as of 5/19/2020            | N/A                  |
| Municipal Water Area                        |              | 6419 WEST RIVER DR NE<br>6581 WEST RIVER DR NE | 10/8/2020              | 5/18/2020              | NA<br>NA             | NA<br>NA                   | NA<br>NA             |
| Municipal Water Area                        |              |  | 11/20/2020             | 5/18/2020              | NA<br>NA             | NA<br>NA                   | NA<br>NA             |
| Municipal Water Area                        |              | 6601 WEST RIVER DR NE                          | 12/11/2020<br>7/7/2021 | 5/18/2020<br>5/12/2020 | NA<br>4/9/2021       | NA<br>NA                   |                      |
| Municipal Water Area<br>Filter Area Over 10 |              | 8475 WINDSTONE DR NE                           |                        |                        |                      | NA<br>10/10/2022 (Install) | NA<br>4/24/2022      |
|   |              | 2445 11 MILE RD NE<br>4080 11 MILE RD NE       | NA<br>NA               | NA<br>5/12/2020        | NA<br>4/0/2021       | 10/19/2022 (Install)       | 4/24/2023            |
| Filter Area Over 10                         |              | 4170 11 MILE RD NE                             | NA<br>NA               | 5/12/2020<br>5/12/2020 | 4/9/2021<br>4/9/2021 | 5/17/2022<br>5/17/2022     | 4/24/2023            |
| Filter Area Over 10                         | 410030101007 | 41/0 11 MILE KD NE                             | NA                     | 5/12/2020              | 4/9/2021             | 5/1//2022                  | 4/24/2023            |

|                     |              |                             | Municipal Water | 2020                 | 2021                 | 2022                 | 2023                 |
|---------------------|--------------|-----------------------------|-----------------|----------------------|----------------------|----------------------|----------------------|
| Area Type           | PPN          | Address                     | Connection Date | Filter Delivery Date | Filter Delivery Date | Filter Delivery Date | Filter Delivery Date |
| Filter Area Over 10 | 410625100022 | 4150 12 MILE RD NE          | 12/18/2023      | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410626200024 | 9798 DEER TRL NE            | NA              | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 411002300016 | 3335 HOUSE ST NE*           | NA              | 6/16/2020            | 4/12/2021            | 5/17/2022            | 4/25/2023            |
| Filter Area Over 10 | 411002300028 | 3515 HOUSE ST NE            | NA              | 1/22/2020            | 4/12/2021            | 5/17/2022            | 4/25/2023            |
| Filter Area Over 10 | 411022426002 | 3104 INDIAN DR NE           | 7/27/2022       | 5/18/2020            | 4/12/2021            | 5/9/2022             | NA                   |
| Filter Area Over 10 | 411023303013 | 3246 INDIAN DR NE           | NA              | 5/18/2020            | 4/12/2021            | 5/9/2022             | 4/25/2023            |
| Filter Area Over 10 | 411023303009 | 3252 INDIAN DR NE           | NA              | 5/18/2020            | 4/12/2021            | 5/9/2022             | 4/25/2023            |
| Filter Area Over 10 | 411001300021 | 7800 JERICHO AVE NE         | NA              | Removed***           | 4/12/2021 (Returned) | NA                   | NA                   |
| Filter Area Over 10 | 411022278007 | 5750 MALL AVE NE            | 6/29/2023       | 5/18/2020            | 4/12/2021            | 5/9/2022             | 4/25/2023            |
| Filter Area Over 10 | 411001151009 | 279 OAK ST NE               | NA              | NA****               | 4/9/2021             | 5/12/2022            | 4/25/2023            |
| Filter Area Over 10 | 411015427006 | 3083 RAPIDFALL CT NE        | 1/13/2023       | NA                   | 6/22/2021 (Install)  | 1/4/2022             | NA                   |
| Filter Area Over 10 | 411022279001 | 3150 RIPLEY ST NE           | 7/12/2023       | NA                   | 6/7/2021 (Install)   | 1/4/2022             | 4/25/2023            |
| Filter Area Over 10 | 411022279003 | 3160 RIPLEY ST NE           | 7/13/2023       | 5/18/2020            | 4/12/2021            | 5/9/2022             | 4/25/2023            |
| Filter Area Over 10 | 411022279004 | 3180 RIPLEY ST NE           | 7/28/2023       | NA                   | 6/11/2021 (Install)  | 1/4/2022             | 4/25/2023            |
| Filter Area Over 10 | 411003352011 | 2560 STRAWBERRY FARMS ST NE | NA              | 5/18/2020            | 4/9/2021             | 5/12/2022            | 4/25/2023            |
| Filter Area Over 10 | 411004427017 | 7857 STRAWBERRY LN NE       | NA              | 5/18/2020            | 4/9/2021             | 5/12/2022            | 4/25/2023            |
| Filter Area Over 10 | 410636101013 | 9105 SUMMIT AVE NE          | NA              | 5/18/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625376001 | 9350 SUMMIT AVE NE          | 1/19/2024       | NA                   | 6/11/2021 (Install)  | 10/12/2022           | 4/24/2023            |
| Filter Area Over 10 | 410625315003 | 9489 SUMMIT AVE NE          | 1/17/2024       | NA                   | 6/11/2021 (Install)  | 9/27/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625326003 | 9552 SUMMIT AVE NE          | 12/12/2023      | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625100074 | 9605 SUMMIT AVE NE          | 12/15/2023      | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625100048 | 9630 SUMMIT AVE NE          | 2/20/2024       | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625100032 | 9737 SUMMIT AVE NE          | 12/14/2023      | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625100072 | 9800 SUMMIT AVE NE          | 2/1/2024        | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625100062 | 9958 SUMMIT AVE NE          | 12/6/2023       | 5/12/2020            | 4/9/2021             | 5/19/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625301011 | 4168 TRADEWIND DR NE        | NA              | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625301002 | 4189 TRADEWIND DR NE        | NA              | 5/12/2020            | 4/9/2021             | Removed by Hom       | eowner June 2021     |
| Filter Area Over 10 | 410625301001 | 4195 TRADEWIND DR NE        | NA              | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 411011126007 | 3531 WARWICK GLEN DR NE     | 9/6/2023        | 5/18/2020            | 4/12/2021            | 5/12/2022            | 4/25/2023            |
| Filter Area Over 10 | 410625301038 | 3830 WHIRLWIND DR NE        | NA              | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 410625301033 | 3900 WHIRLWIND DR NE        | NA              | 5/12/2020            | 4/9/2021             | 5/17/2022            | 4/24/2023            |
| Filter Area Over 10 | 411015426026 | 6298 WOODWATER DR NE        | 11/16/2022      | 5/18/2020            | 4/12/2021            | 5/9/2022             | NA                   |
| Filter Area Over 10 | 411015427019 | 6399 WOODWATER DR NE        | 12/27/2022      | NA****               | NA****               | 1/6/2022             | NA                   |

#### Notes

- 1) Addresses on this list are in Municipal Water Areas per the Consent Decree with POU filters installed or are in the Filter Areas per the Consent Decree where known PFOS+PFOA concentrations were greater than 10 parts per trillion (ppt).
- 2) "\*" indicates more than one POU is installed at this address and replacement cartridges were provided for each POU.
- 3) "\*\*" indicates the POU was delivered to the homeowner for self install on the date listed; however, no response was provided on install date or use.
- 4) "\*\*\*" indicates POU was scheduled to be removed before Michigan Part 201 groundwater drinking water criteria was established. Results were not greater than 10 ppt for PFOS+PFOA; however, results were greater than PFOA for the Part 201 groundwater drinking water criteria. There has been no response to a POU re-install offer.
- 5) "\*\*\*\*" indicates was originally in the Filter Areas where PFOS+PFOA concentrations were less than 10 ppt but Wolverine resumed operation and maintenance of the filters after resampling results were greater than 10 ppt PFOS+PFOA.
- 6) Abbreviations Include:
- "POU" indicates point-of-use filter.
- "NA" indiates not applicable.

| PPN          | Address                                  | Municipal Water<br>Connection Date | POET Status     | POU Status          |
|--------------|--|------------------------------------|-----------------|---------------------|
| 411005126009 | 1084 10 MILE RD NE                       | 10/12/2023                         | NA              | Removed             |
| 411005126062 | 1172 10 MILE RD NE                       | 10/9/2023                          | Removed         | NA                  |
| 411005200041 | 1310 10 MILE RD NE                       | 10/16/2023                         | Installed       | NA                  |
| 411005200001 | 1332 10 MILE RD NE                       | 9/18/2023                          | Installed       | NA                  |
| 411005200002 | 1344 10 MILE RD NE                       | 9/18/2023                          | Installed       | NA                  |
| 411005200027 | 1380 10 MILE RD NE                       | 10/19/2023                         | Installed       | NA                  |
| 411005200028 | 1456 10 MILE RD NE                       | 10/9/2023                          | Removed         | NA                  |
| 411005200029 | 1460 10 MILE RD NE                       | 10/18/2023                         | Installed       | NA                  |
| 411005200034 | 1530 10 MILE RD NE                       | 12/29/2023                         | Installed       | NA                  |
| 411005200024 | 1538 10 MILE RD NE                       | 11/2/2023                          | Installed       | NA                  |
| 411005200025 | 1542 10 MILE RD NE                       | 10/25/2023                         | Installed       | NA                  |
| 411005200026 | 1546 10 MILE RD NE                       | 9/25/2023                          | Installed       | NA NA               |
| 411005200038 | 1550 10 MILE RD NE                       | 11/30/2023                         | Installed       | NA                  |
| 411005200039 | 1590 10 MILE RD NE                       | 12/21/2023                         | Installed       | NA                  |
| 411005200033 | 1602 10 MILE RD NE                       | 9/6/2023                           | Installed       | NA NA               |
| 411003200032 | 1622 10 MILE RD NE                       | 9/19/2023                          | Removed         | NA NA               |
| 411003200042 | 1656 10 MILE RD NE                       | 7/31/2023                          | Removed         | NA NA               |
| 411003200043 | 1672 10 MILE RD NE                       | 10/12/2023                         | Removed         | NA<br>NA            |
| 411004101002 | 1700 10 MILE RD NE                       | 10/12/2023                         | NA              | Installed           |
|              |  |                                    | Installed       |                     |
| 411004104002 | 1736 10 MILE RD NE<br>1840 10 MILE RD NE | 12/20/2023                         |                 | NA<br>Na at all a d |
| 411004103003 |  | 9/29/2023                          | NA<br>Danasarah | Installed           |
| 411004126005 | 1866 10 MILE RD NE                       | 9/14/2023                          | Removed         | NA<br>NA            |
| 411004126007 | 1884 10 MILE RD NE                       | 8/17/2023                          | Removed         | NA NA               |
| 411004126002 | 1918 10 MILE RD NE                       | 9/20/2023                          | Installed       | NA                  |
| 411004126003 | 1940 10 MILE RD NE                       | 8/28/2023                          | Installed       | NA                  |
| 411004128001 | 2034 10 MILE RD NE                       | 9/23/2022                          | Installed       | NA                  |
| 411004200012 | 2070 10 MILE RD NE                       | 10/21/2022                         | Installed       | NA                  |
| 411004200015 | 2186 10 MILE RD NE                       | 8/4/2022                           | Installed       | NA                  |
| 410628300011 | 1981 11 MILE RD NE                       | 10/3/2022                          | Installed       | NA                  |
| 410628451002 | 2011 11 MILE RD NE                       | 9/27/2022                          | Installed       | NA                  |
| 410628451003 | 2029 11 MILE RD NE                       | 12/12/2022                         | Installed       | Installed           |
| 410633201002 | 2050 11 MILE RD NE                       | 9/29/2022                          | Installed       | NA                  |
| 410633226001 | 2202 11 MILE RD NE                       | 12/8/2022                          | Installed       | NA                  |
| 410628478003 | 2211 11 MILE RD NE                       | 9/19/2022                          | Installed       | NA                  |
| 410628478004 | 2215 11 MILE RD NE                       | 5/17/2023                          | Installed       | NA                  |
| 410628478002 | 2251 11 MILE RD NE                       | 6/7/2023                           | Removed         | NA                  |
| 410633226004 | 2286 11 MILE RD NE                       | 2/13/2023                          | Removed         | NA                  |
| 410634226002 | 3060 11 MILE RD NE                       | 9/10/2021                          | Installed       | Installed           |
| 410634226003 | 3100 11 MILE RD NE                       | 6/21/2021                          | Installed       | Installed           |
| 410627400046 | 3155 11 MILE RD NE                       | 8/10/2021                          | Removed         | NA                  |
| 410635100020 | 3246 11 MILE RD NE                       | 8/30/2021                          | Installed       | NA                  |
| 410634300016 | 8500 ALGOMA AVE NE                       | 11/7/2022                          | Installed       | NA                  |
| 410633426019 | 8641 ALGOMA AVE NE                       | 1/5/2023                           | Installed       | NA                  |
| 410634300029 | 8720 ALGOMA AVE NE                       | 7/13/2023                          | Removed         | NA                  |
| 410633276001 | 9001 ALGOMA AVE NE                       | 8/8/2023                           | Removed         | NA                  |
| 410633226009 | 9045 ALGOMA AVE NE                       | 7/10/2023                          | Removed         | NA                  |
| 410633226008 | 9049 ALGOMA AVE NE                       | 5/25/2023                          | Removed         | NA                  |
| 410633226012 | 9051 ALGOMA AVE NE                       | 7/5/2023                           | Removed         | NA                  |
| 410633226013 | 9053 ALGOMA AVE NE                       | 12/1/2023                          | Installed       | NA                  |
| 410633226006 | 9057 ALGOMA AVE NE                       | 7/10/2023                          | Removed         | NA                  |
| 410633226007 | 9059 ALGOMA AVE NE                       | 11/7/2023                          | Installed       | NA                  |
| 410633226014 | 9063 ALGOMA AVE NE                       | 6/8/2023                           | Removed         | NA                  |
| 410628477004 | 9247 ALGOMA AVE NE                       | 7/25/2023                          | Removed         | NA                  |
| 410633426013 | 2300 ALGOMA WOODS DR NE                  | 6/2/2023                           | Removed         | NA                  |

| PPN                          | Address                    | Municipal Water<br>Connection Date | POET Status       | POU Status      |
|------------------------------|----------------------------|------------------------------------|-------------------|-----------------|
| 410633426014                 | 2324 ALGOMA WOODS DR NE    | 6/6/2023                           | Removed           | NA              |
| 411014301009                 | 3265 ANCLIFF ST NE         | 11/11/2020                         | NA                | Installed       |
| 411016276009                 | 6517 BELMONT AVE NE        | 11/10/2021                         | Removed           | NA              |
| 411015102003                 | 6790 BELMONT AVE NE        | 9/15/2021                          | Installed         | NA              |
| 411009476001                 | 6813 BELMONT AVE NE        | 1/31/2022                          | Removal Scheduled | NA              |
| 411010352012                 | 6824 BELMONT AVE NE        | 11/8/2021                          | Removed           | NA              |
| 411010352007                 | 6830 BELMONT AVE NE        | 4/29/2022                          | Installed         | NA              |
| 411010351006                 | 6935 BELMONT AVE NE        | 1/13/2022                          | Removed           | NA              |
| 411010303008                 | 7124 BELMONT AVE NE        | 11/10/2021                         | Installed         | Installed       |
| 411010302009                 | 7143 BELMONT AVE NE        | 12/21/2021                         | Installed         | NA              |
| 411010326027                 | 7190 BELMONT AVE NE        | 12/15/2021                         | Installed         | NA              |
| 411010176021                 | 7220 BELMONT AVE NE        | 11/15/2021                         | Removed           | NA NA           |
| 411003152004                 | 8139 BELMONT AVE NE        | 11/2/2020                          | Removed           | NA NA           |
| 411005132004                 | 6072 BELSHIRE AVE NE       | 10/16/2020                         | Installed         | NA NA           |
| 411015370017                 | 6175 BELSHIRE AVE NE       | 1/7/2021                           | Installed         | NA NA           |
| 411015352017                 | 3232 BENT TREE RIDGE DR NE | 7/27/2021                          | Removed           |                 |
|                              |                            | 6/29/2021                          | Installed         | NA<br>NA        |
| 410635301006                 | 3235 BENT TREE RIDGE DR NE |                                    |                   | NA<br>NA        |
| 410635301016                 | 3260 BENT TREE RIDGE DR NE | 7/1/2021                           | Removed           | NA<br>NA        |
| 410635301007                 | 3275 BENT TREE RIDGE DR NE | 6/23/2021                          | Installed         | NA              |
| 410635301011                 | 3290 BENT TREE RIDGE DR NE | 7/7/2021                           | Installed         | NA              |
| 410635301008                 | 3325 BENT TREE RIDGE DR NE | 6/22/2021                          | Installed         | NA              |
| 410635301012                 | 3330 BENT TREE RIDGE DR NE | 8/3/2021                           | Installed         | NA              |
| 410628452001                 | 9207 BOOTH BAY CT NE       | 8/7/2023                           | Removed           | NA              |
| 410628452002                 | 9215 BOOTH BAY CT NE       | 11/23/2022                         | Installed         | NA              |
| 410628452003                 | 9227 BOOTH BAY CT NE       | 11/18/2022                         | Installed         | NA              |
| 410628452004                 | 9239 BOOTH BAY CT NE       | 6/28/2023                          | Installed         | NA              |
| 411004200058                 | 2100 BRENT DR NE           | 12/22/2022                         | Installed         | Installed       |
| 411004200059                 | 2150 BRENT DR NE           | 1/4/2023                           | Removed           | Installed       |
| 411004200056                 | 2200 BRENT DR NE           | 12/20/2022                         | Installed         | Installed       |
| 411004200032                 | 2109 BRITTANY DR NE        | 9/21/2022                          | Installed         | Installed       |
| 411004200033                 | 2145 BRITTANY DR NE        | 11/21/2022                         | Installed         | Installed       |
| 411004200034                 | 2179 BRITTANY DR NE        | 9/22/2022                          | Installed         | Installed       |
| 411009340001                 | 7042 CHANDLER DR NE        | 9/30/2020                          | Installed         | NA              |
| 411009301008                 | 7071 CHANDLER DR NE        | 1/12/2021                          | Installed         | Installed       |
| 411009301002                 | 7081 CHANDLER DR NE        | 9/2/2020                           | Removed           | NA              |
| 411009301003                 | 7129 CHANDLER DR NE        | 7/29/2020                          | Removed           | NA              |
| 411009301001                 | 7169 CHANDLER DR NE        | 7/8/2020                           | Removed           | NA NA           |
| 411009326009                 | 7184 CHANDLER DR NE        | 8/10/2020                          | Removed           | NA NA           |
| 411009320009                 | 7200 CHANDLER DR NE        | 7/23/2020                          | Removed           | NA NA           |
| 411009100010                 | 7249 CHANDLER DR NE        | 9/30/2020                          | Removed           | NA NA           |
| 411009100003                 | 7300 CHANDLER DR NE        | 8/13/2020                          | Removed           | NA NA           |
|                              |                            |                                    |                   |                 |
| 411009100039                 | 7343 CHANDLER DR NE        | 9/29/2020                          | Installed         | NA<br>NA        |
| 411009100038<br>411009100044 | 7367 CHANDLER DR NE        | 7/31/2020                          | Removed           | NA<br>NA        |
|                              | 7370 CHANDLER DR NE        | 8/24/2020                          | Installed         | NA<br>NA        |
| 411009100011                 | 7401 CHANDLER DR NE        | 8/3/2020                           | Installed         | NA<br>NA        |
| 411009100045                 | 7410 CHANDLER DR NE        | 7/20/2020                          | Removed           | NA              |
| 411009100015                 | 7415 CHANDLER DR NE        | 7/21/2020                          | Removed           | No Longer Using |
| 411009100026                 | 7419 CHANDLER DR NE        | 8/11/2020                          | Removed           | NA              |
| 411009100046                 | 7422 CHANDLER DR NE        | 8/19/2020                          | Removed           | Installed       |
| 411009100027                 | 7425 CHANDLER DR NE        | 8/4/2020                           | Removed           | Installed       |
| 411009100030                 | 7428 CHANDLER DR NE        | 7/8/2020                           | Removed           | NA              |
| 411009100036                 | 7480 CHANDLER DR NE        | 8/25/2020                          | Removed           | NA              |
| 411009100013                 | 7485 CHANDLER DR NE        | 8/6/2020                           | Removed           | Installed       |
| 411009200025                 | 7501 CHANDLER DR NE        | 8/24/2020                          | Installed         | No Longer Using |

| PPN                          | Address                                       | Municipal Water              | POET Status       | POU Status        |
|------------------------------|---|------------------------------|-------------------|-------------------|
| 411009200022                 | 7555 CHANDLER DR NE                           | Connection Date<br>6/30/2020 | Installed         | NA                |
| 411009200022                 | 7557 CHANDLER DR NE                           | 7/15/2020                    | Removed           | NA<br>NA          |
| 411009200037                 | 7565 CHANDLER DR NE                           | 4/22/2021                    | Removed           | NA<br>NA          |
| 411009200023                 |   |                              |                   |                   |
|                              | 8293 CHILDSDALE AVE NE                        | 11/8/2023                    | NA<br>NA          | Installed         |
| 411002200013                 | 8313 CHILDSDALE AVE NE                        | 11/28/2023                   | NA<br>NA          | Installed         |
| 411002200057                 | 8339 CHILDSDALE AVE NE                        | 11/16/2023                   | NA                | Installed         |
| 411002200053                 | 8341 CHILDSDALE AVE NE                        | 11/10/2023                   | Installed         | NA                |
| 411002200064                 | 8343 CHILDSDALE AVE NE                        | 11/16/2023                   | NA                | Installed         |
| 411002200035                 | 8371 CHILDSDALE AVE NE                        | 2/8/2024                     | NA                | Installed         |
| 411002200059                 | 8395 CHILDSDALE AVE NE                        | 9/5/2023                     | NA .              | Installed         |
| 410635100038                 | 8850 ELSTNER AVE NE                           | 8/25/2021                    | Removed           | NA                |
| 410635100029                 | 8870 ELSTNER AVE NE                           | 8/27/2021                    | Removal Scheduled | NA                |
| 410635100028                 | 8894 ELSTNER AVE NE                           | 8/12/2021                    | Installed         | NA                |
| 410635100027                 | 8922 ELSTNER AVE NE                           | 9/3/2021                     | Removed           | No Longer Using   |
| 410635100026                 | 8948 ELSTNER AVE NE                           | 9/3/2021                     | Installed         | NA                |
| 410634228004                 | 9047 ELSTNER AVE NE                           | 9/5/2023                     | Installed         | NA                |
| 410634228002                 | 9145 ELSTNER AVE NE                           | 11/12/2021                   | Installed         | NA                |
| 410627400045                 | 9311 ELSTNER AVE NE                           | 7/29/2021                    | Removal Scheduled | NA                |
| 411010326038                 | 7077 EMERALD FOREST DR NE                     | 1/18/2022                    | Removed           | NA                |
| 411022127019                 | 5684 ETHELWIN AVE NE                          | 12/9/2020                    | NA                | Installed         |
| 411022127038                 | 5864 ETHELWIN AVE NE                          | 10/30/2020                   | NA                | Installed         |
| 411005126051                 | 8200 FRESKA LAKE DR NE                        | 12/12/2023                   | NA                | Installed         |
| 411010351003                 | 2466 FROND ST NE                              | 11/3/2021                    | Removed           | NA                |
| 410628476018                 | 9285 GARDEN GATE DR NE                        | 5/17/2023                    | Removed           | NA                |
| 410628476017                 | 9305 GARDEN GATE DR NE                        | 5/18/2023                    | Installed         | NA                |
| 410628476013                 | 9370 GARDEN GATE DR NE                        | 6/19/2023                    | Installed         | NA                |
| 411010351004                 | 6975 HERRINGTON AVE NE                        | 12/22/2021                   | Removed           | NA                |
| 411010301022                 | 6997 HERRINGTON AVE NE                        | 11/8/2021                    | Removed           | NA                |
| 411010301028                 | 7019 HERRINGTON AVE NE                        | 12/17/2021                   | Installed         | No Longer Using   |
| 411009429006                 | 7029 HERRINGTON AVE NE                        | 10/27/2021                   | Installed         | NA NA             |
| 411010301026                 | 7034 HERRINGTON AVE NE                        | 12/23/2021                   | Installed         | NA                |
| 411009429002                 | 7079 HERRINGTON AVE NE                        | 11/5/2021                    | Installed         | NA                |
| 411009429001                 | 7157 HERRINGTON AVE NE                        | 9/20/2021                    | Installed         | NA                |
| 411009426001                 | 7193 HERRINGTON AVE NE                        | 9/10/2021                    | Removed           | NA                |
| 411009200047                 | 7210 HERRINGTON AVE NE                        | 9/10/2021                    | Removed           | NA                |
| 411009200013                 | 7211 HERRINGTON AVE NE                        | 11/1/2021                    | Installed         | NA NA             |
| 411009200046                 | 7220 HERRINGTON AVE NE                        | 12/9/2021                    | Removed           | NA NA             |
| 411009200007                 | 7320 HERRINGTON AVE NE                        | 8/11/2021                    | Installed         | Installed         |
| 411009251029                 | 7373 HERRINGTON AVE NE                        | 9/15/2021                    | Removed           | NA                |
| 411009201029                 | 7400 HERRINGTON AVE NE                        | 8/19/2020                    | Removed           | NA NA             |
| 411009200030                 | 7415 HERRINGTON AVE NE                        | 8/12/2020                    | Installed         | Installed         |
| 411009200040                 | 7426 HERRINGTON AVE NE                        | 8/27/2020                    | Removed           | NA                |
| 411009200029                 | 7435 HERRINGTON AVE NE                        | 7/24/2020                    | Removed           | NA<br>NA          |
| 411009200039                 | 7460 HERRINGTON AVE NE                        | 8/25/2020                    | Removed           | NA<br>NA          |
|                              |   |                              |                   |                   |
| 411009200032<br>411009200018 | 7500 HERRINGTON AVE NE 7509 HERRINGTON AVE NE | 8/18/2020<br>8/17/2020       | Removed           | NA<br>NA          |
|                              |   | 8/31/2020                    | Removed           |                   |
| 411009200014                 | 7531 HERRINGTON AVE NE                        | 8/31/2020                    | Removed           | NA<br>NA          |
| 411009200027                 | 7550 HERRINGTON AVE NE                        |                              | Removed           | NA<br>NA          |
| 411009200045                 | 7580 HERRINGTON AVE NE                        | 9/2/2020                     | Removed           | NA<br>NA          |
| 411009200002                 | 7585 HERRINGTON AVE NE                        | 8/11/2020                    | Removed           | NA<br>In the Head |
| 411009200024                 | 7601 HERRINGTON AVE NE                        | 10/12/2020                   | NA .              | Installed         |
| 411009200043                 | 7608 HERRINGTON AVE NE                        | 10/27/2020                   | Removed           | NA                |
| 411004477002                 | 7630 HERRINGTON AVE NE                        | 8/25/2020                    | Removed           | NA                |
| 411004451008                 | 7641 HERRINGTON AVE NE                        | 9/22/2020                    | NA                | Installed         |

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| 411004451006 | 7649 HERRINGTON AVE NE | 8/27/2020                          | Removed     | NA              |
| 411004451007 | 7651 HERRINGTON AVE NE | 9/17/2020                          | Removed     | Removed         |
| 411004451005 | 7661 HERRINGTON AVE NE | 9/15/2020                          | Removed     | Removed         |
| 411004451004 | 7667 HERRINGTON AVE NE | 7/31/2020                          | Removed     | Removed         |
| 411004476004 | 7680 HERRINGTON AVE NE | 8/3/2020                           | Removed     | NA              |
| 411004476003 | 7712 HERRINGTON AVE NE | 8/14/2020                          | Removed     | NA              |
| 411004476002 | 7720 HERRINGTON AVE NE | 9/8/2020                           | Removed     | Installed       |
| 411009200019 | 7733 HERRINGTON AVE NE | 9/25/2020                          | Removed     | NA              |
| 411004451003 | 7737 HERRINGTON AVE NE | 7/30/2020                          | Removed     | NA              |
| 411004451010 | 7747 HERRINGTON AVE NE | 8/14/2020                          | Removed     | Installed       |
| 411004451011 | 7757 HERRINGTON AVE NE | 10/28/2020                         | Removed     | Installed       |
| 411004451012 | 7777 HERRINGTON AVE NE | 10/27/2020                         | Removed     | NA              |
| 411004426003 | 7830 HERRINGTON AVE NE | 8/13/2020                          | Removed     | NA              |
| 411004451001 | 7863 HERRINGTON AVE NE | 7/30/2020                          | Removed     | Removed         |
| 411004426002 | 7864 HERRINGTON AVE NE | 8/27/2020                          | Removed     | NA              |
| 411004200048 | 8004 HERRINGTON AVE NE | 8/22/2022                          | Installed   | NA              |
| 411004200051 | 8025 HERRINGTON AVE NE | 11/3/2022                          | Installed   | Installed       |
| 411004200035 | 8081 HERRINGTON AVE NE | 5/1/2023                           | NA          | Installed       |
| 411004200046 | 8092 HERRINGTON AVE NE | 10/21/2022                         | Installed   | Installed       |
| 411004200045 | 8100 HERRINGTON AVE NE | 7/22/2022                          | Installed   | NA              |
| 411004200021 | 8138 HERRINGTON AVE NE | 7/29/2022                          | Installed   | No Longer Using |
| 411004200044 | 8180 HERRINGTON AVE NE | 7/22/2022                          | Installed   | NA S            |
| 411004200029 | 8265 HERRINGTON AVE NE | 7/28/2022                          | Installed   | NA              |
| 411004200025 | 8273 HERRINGTON AVE NE | 6/28/2022                          | Installed   | NA              |
| 411004200028 | 8281 HERRINGTON AVE NE | 9/26/2022                          | Installed   | NA              |
| 411004200040 | 8301 HERRINGTON AVE NE | 8/10/2022                          | Installed   | NA              |
| 411004200053 | 8315 HERRINGTON AVE NE | 8/29/2023                          | Installed   | NA              |
| 411004200052 | 8327 HERRINGTON AVE NE | 10/9/2023                          | Installed   | NA              |
| 411004200020 | 8333 HERRINGTON AVE NE | 8/4/2022                           | Installed   | NA              |
| 411004200017 | 8377 HERRINGTON AVE NE | 11/16/2022                         | Installed   | NA              |
| 411004200037 | 8386 HERRINGTON AVE NE | 11/16/2022                         | Installed   | NA              |
| 411004200019 | 8431 HERRINGTON AVE NE | 9/26/2022                          | Installed   | NA              |
| 410635120025 | 8910 HOPEWELL DR NE    | 6/14/2021                          | Installed   | NA              |
| 411005400043 | 1265 HOUSE ST NE       | 12/3/2020                          | Installed   | NA              |
| 411005400042 | 1271 HOUSE ST NE       | 12/3/2020                          | Installed   | NA              |
| 411008200040 | 1300 HOUSE ST NE       | 1/11/2021                          | Installed   | NA              |
| 411008200045 | 1310 HOUSE ST NE       | 8/19/2020                          | Installed   | NA              |
| 411005400037 | 1339 HOUSE ST NE       | 11/19/2020                         | Removed     | Installed       |
| 411008200036 | 1360 HOUSE ST NE       | 2/10/2021                          | Installed   | No Longer Using |
| 411008200049 | 1430 HOUSE ST NE       | 8/20/2020                          | Installed   | NA              |
| 411008200019 | 1440 HOUSE ST NE       | 9/28/2020                          | Installed   | No Longer Using |
| 411005400045 | 1447 HOUSE ST NE       | 9/15/2020                          | Installed   | NA              |
| 411008200011 | 1460 HOUSE ST NE       | 10/14/2020                         | Removed     | NA              |
| 411005400018 | 1475 HOUSE ST NE       | 9/1/2020                           | Removed     | NA              |
| 411008200012 | 1480 HOUSE ST NE       | 9/30/2020                          | Removed     | No Longer Using |
| 411005400019 | 1495 HOUSE ST NE       | 9/9/2020                           | Removed     | NA              |
| 411005400024 | 1499 HOUSE ST NE       | 8/4/2020                           | NA          | Installed       |
| 411008200015 | 1500 HOUSE ST NE       | 9/9/2020                           | Removed     | Installed       |
| 411009100041 | 1580 HOUSE ST NE       | 9/14/2020                          | Removed     | No Longer Using |
| 411009100042 | 1584 HOUSE ST NE       | 1/21/2021                          | Removed     | No Longer Using |
| 411005400025 | 1597 HOUSE ST NE       | 9/28/2020                          | Removed     | No Longer Using |
| 411009100043 | 1600 HOUSE ST NE       | 8/21/2020                          | Removed     | Installed       |
| 411005400008 | 1601 HOUSE ST NE       | 8/21/2020                          | Installed   | NA              |
| 411005400030 | 1617 HOUSE ST NE       | 8/25/2020                          | Installed   | Installed       |

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| 411004300045 | 1620 HOUSE ST NE         | 8/25/2020                          | Removed           | Installed       |
| 411005400031 | 1625 HOUSE ST NE         | 8/18/2020                          | Removed           | NA              |
| 411004300047 | 1650 HOUSE ST NE         | 1/14/2021                          | Removed           | NA              |
| 411004300060 | 1654 HOUSE ST NE         | 8/5/2020                           | Removed           | Installed       |
| 411005400011 | 1655 HOUSE ST NE         | 9/23/2020                          | Removed           | Removed         |
| 411004300049 | 1664 HOUSE ST NE         | 10/20/2020                         | Removed           | Installed       |
| 411004300050 | 1676 HOUSE ST NE         | 10/20/2020                         | Installed         | No Longer Using |
| 411004300051 | 1682 HOUSE ST NE         | 10/1/2020                          | Removed           | Installed       |
| 411004300052 | 1698 HOUSE ST NE         | 8/28/2020                          | Removed           | Removed         |
| 411004300022 | 1711 HOUSE ST NE         | 10/21/2020                         | Removed           | NA              |
| 411004300023 | 1767 HOUSE ST NE         | 9/24/2020                          | Removed           | NA              |
| 411004300057 | 1778 HOUSE ST NE         | 10/15/2020                         | Installed         | No Longer Using |
| 411004300010 | 1781 HOUSE ST NE         | 7/6/2020                           | Removed           | No Longer Using |
| 411004300054 | 1786 HOUSE ST NE         | 12/9/2020                          | Removed           | No Longer Using |
| 411004300036 | 1850 HOUSE ST NE         | 9/21/2020                          | Removed           | Installed       |
| 411004300030 | 2115 HOUSE STINE         | 9/22/2020                          | Installed         | Installed       |
| 411015351036 | 6107 IDAHO AVE NE        | 11/2/2020                          | Removed           | NA              |
| 411015351036 | 6121 IDAHO AVE NE        | 2/24/2021                          | Installed         | NA<br>NA        |
| 411015351035 | 6126 IDAHO AVE NE        | 9/23/2020                          | Removed           | NA<br>NA        |
| 411013332042 | 7853 IMPERIAL PINE DR NE | 1/28/2021                          | Installed         | NA<br>NA        |
|              |                          |                                    | Installed         |                 |
| 411004300041 | 7879 IMPERIAL PINE DR NE | 11/23/2020                         |                   | No Longer Using |
| 411004300063 | 7885 IMPERIAL PINE DR NE | 11/23/2020                         | Installed         | No Longer Using |
| 410633251006 | 8980 JEWELL AVE NE       | 10/20/2022                         | Installed         | NA<br>NA        |
| 410633201008 | 9000 JEWELL AVE NE       | 9/29/2022                          | Installed         | NA              |
| 410633100076 | 9011 JEWELL AVE NE       | 1/4/2023                           | Installed         | NA              |
| 410633201006 | 9070 JEWELL AVE NE       | 9/30/2022                          | Installed         | Installed       |
| 410633201005 | 9090 JEWELL AVE NE       | 10/5/2022                          | Installed         | Installed       |
| 410633100011 | 9101 JEWELL AVE NE       | 8/30/2022                          | Removed           | NA              |
| 410633201001 | 9150 JEWELL AVE NE       | 9/12/2022                          | Installed         | NA              |
| 410633100033 | 9165 JEWELL AVE NE       | 1/18/2023                          | Removed           | NA              |
| 410633100032 | 9171 JEWELL AVE NE       | 11/11/2022                         | Removal Scheduled | NA              |
| 411009251019 | 2020 KORBEN WOODS CT NE  | 12/3/2021                          | Removed           | NA              |
| 411009251018 | 2039 KORBEN WOODS CT NE  | 12/16/2021                         | Removed           | NA              |
| 411009251020 | 2042 KORBEN WOODS CT NE  | 9/29/2021                          | Installed         | NA              |
| 411009251017 | 2055 KORBEN WOODS CT NE  | 12/15/2021                         | Installed         | Installed       |
| 411009251021 | 2075 KORBEN WOODS CT NE  | 12/30/2021                         | Installed         | Installed       |
| 411009251016 | 2077 KORBEN WOODS CT NE  | 12/15/2021                         | Removed           | NA              |
| 410634227042 | 8900 LADY LAUREN DR NE   | 7/1/2020                           | Removed           | NA              |
| 410634227043 | 8903 LADY LAUREN DR NE   | 6/10/2020                          | Removed           | NA              |
| 410634227041 | 8914 LADY LAUREN DR NE   | 6/24/2020                          | Removed           | NA              |
| 410634227045 | 8919 LADY LAUREN DR NE   | 6/8/2020                           | Removed           | Installed       |
| 410634227040 | 8922 LADY LAUREN DR NE   | 7/13/2020                          | Removed           | Installed       |
| 410634227046 | 8927 LADY LAUREN DR NE   | 6/18/2020                          | Removed           | NA              |
| 410634227039 | 8930 LADY LAUREN DR NE   | 7/28/2020                          | Removed           | NA              |
| 410634227047 | 8935 LADY LAUREN DR NE   | 7/16/2020                          | Removed           | Installed       |
| 410634227048 | 8941 LADY LAUREN DR NE   | 7/27/2020                          | Removed           | NA              |
| 410634227038 | 8942 LADY LAUREN DR NE   | 6/4/2020                           | Removed           | NA              |
| 410634227049 | 8947 LADY LAUREN DR NE   | 7/13/2020                          | Removed           | NA              |
| 410634227037 | 8954 LADY LAUREN DR NE   | 6/4/2020                           | Removed           | NA              |
| 410634227001 | 9070 LADY LAUREN DR NE   | 7/20/2020                          | Removed           | NA              |
| 410634227004 | 9102 LADY LAUREN DR NE   | 6/29/2020                          | NA                | Installed       |
| 410634227005 | 9108 LADY LAUREN DR NE   | 7/7/2020                           | NA                | Installed       |
| 410634227006 | 9114 LADY LAUREN DR NE   | 8/3/2020                           | NA                | Installed       |
| 410634227007 | 9120 LADY LAUREN DR NE   | 7/22/2020                          | Removed           | NA              |

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| 410634227008 | 9128 LADY LAUREN DR NE  | 6/26/2020                          | Installed   | NA         |
| 410634227010 | 9152 LADY LAUREN DR NE  | 8/13/2020                          | Removed     | NA         |
| 410634227021 | 9155 LADY LAUREN DR NE  | 6/5/2020                           | Removed     | Installed  |
| 410634227011 | 9164 LADY LAUREN DR NE  | 6/23/2020                          | Removed     | NA         |
| 410634227020 | 9169 LADY LAUREN DR NE  | 10/5/2020                          | Removed     | NA         |
| 410634227019 | 9175 LADY LAUREN DR NE  | 7/7/2020                           | Installed   | NA         |
| 410634227012 | 9178 LADY LAUREN DR NE  | 7/9/2020                           | Installed   | NA         |
| 410634227018 | 9187 LADY LAUREN DR NE  | 6/16/2020                          | Removed     | NA         |
| 410634227013 | 9190 LADY LAUREN DR NE  | 7/8/2020                           | Removed     | NA         |
| 410634227017 | 9193 LADY LAUREN DR NE  | 6/29/2020                          | Installed   | Installed  |
| 410634227016 | 9195 LADY LAUREN DR NE  | 9/3/2020                           | Removed     | NA         |
| 410634227015 | 9200 LADY LAUREN DR NE  | 10/5/2020                          | Installed   | NA NA      |
| 410634227014 | 9202 LADY LAUREN DR NE  | 6/24/2020                          | Removed     | NA<br>NA   |
| 111009401007 | 2001 MEEK DR NE         | 1/20/2022                          | Installed   | NA<br>NA   |
|              |                         |                                    |             |            |
| 111009401006 | 2023 MEEK DR NE         | 1/31/2022                          | Installed   | NA<br>NA   |
| 111009401010 | 2024 MEEK DR NE         | 1/19/2022                          | Installed   | NA<br>NA   |
| 111009401014 | 2036 MEEK DR NE         | 5/27/2022                          | Installed   | NA<br>NA   |
| 111009401005 | 2039 MEEK DR NE         | 1/7/2022                           | Removed     | NA<br>NA   |
| 411009401001 | 2051 MEEK DR NE         | 5/27/2022                          | Installed   | NA         |
| 411009401018 | 2060 MEEK DR NE         | 12/15/2021                         | Removed     | NA         |
| 411009251022 | 2066 MEEK DR NE         | 1/12/2022                          | Removed     | NA         |
| 111009251023 | 2072 MEEK DR NE         | 12/9/2021                          | Installed   | Installed  |
| 111009251024 | 2086 MEEK DR NE         | 12/20/2021                         | Removed     | NA         |
| 411009251025 | 2100 MEEK DR NE         | 11/19/2021                         | Removed     | NA         |
| 111009251003 | 2141 MEEK DR NE         | 12/15/2021                         | Installed   | NA         |
| 411009251004 | 2147 MEEK DR NE         | 12/20/2021                         | Installed   | Installed  |
| 411009251005 | 2153 MEEK DR NE         | 11/17/2021                         | Installed   | NA         |
| 111009251027 | 2154 MEEK DR NE         | 9/29/2021                          | Installed   | NA         |
| 410628452021 | 9286 NAGSHEAD CT NE     | 11/10/2022                         | Installed   | NA         |
| 110628452005 | 9253 NANTUCKET CT NE    | 11/28/2022                         | Installed   | NA         |
| 410628452006 | 9261 NANTUCKET CT NE    | 1/11/2023                          | Removed     | NA         |
| 410628452007 | 9269 NANTUCKET CT NE    | 8/8/2023                           | Removed     | NA         |
| 410628452008 | 9277 NANTUCKET CT NE    | 10/12/2022                         | Installed   | NA         |
| 410628452009 | 9285 NANTUCKET CT NE    | 10/28/2022                         | Installed   | NA         |
| 111014153010 | 6502 NUGGET AVE NE      | 9/24/2020                          | NA          | Installed  |
| 111014152008 | 6515 NUGGET AVE NE      | 10/22/2020                         | NA          | Installed  |
| 111014152007 | 6531 NUGGET AVE NE      | 11/20/2020                         | NA          | Installed  |
| 111017132007 | 6605 PACKER DR NE       | 1/26/2022                          | Removed     | NA         |
| 111010426012 | 7000 PACKER DR NE       | 12/14/2021                         | Installed   | Installed  |
| 111010426012 | 7035 PACKER DR NE       | 12/14/2021                         | Installed   | NA         |
|              |                         |                                    |             |            |
| 111010451016 | 7165 PACKER DR NE       | 9/16/2022                          | Installed   | NA<br>NA   |
| 111010451017 | 7173 PACKER DR NE       | 6/13/2022                          | Installed   | NA NA      |
| 111010426010 | 7210 PACKER DR NE       | 12/9/2021                          | Installed   | NA NA      |
| 111010451023 | 7229 PACKER DR NE       | 6/15/2022                          | Installed   | NA         |
| 111010451014 | 7157 PACKER WOODS DR NE | 1/6/2023                           | Installed   | Installed  |
| 111010376023 | 7171 PACKER WOODS DR NE | 6/16/2022                          | Installed   | NA         |
| 411010301015 | 7045 PINE HILL DR NE    | 11/15/2021                         | Removed     | NA         |
| 411010302012 | 7060 PINE HILL DR NE    | 11/11/2021                         | Installed   | Installed  |
| 411010301014 | 7061 PINE HILL DR NE    | 9/1/2021                           | Removed     | NA         |
| 411010301012 | 7105 PINE HILL DR NE    | 12/28/2021                         | Installed   | NA         |
| 411010301011 | 7125 PINE HILL DR NE    | 10/21/2021                         | Installed   | NA         |
| 111010302010 | 7126 PINE HILL DR NE    | 9/15/2021                          | Removed     | NA         |
| 411010301027 | 7143 PINE HILL DR NE    | 1/24/2022                          | Installed   | NA         |
| 411010151025 | 7211 PINE HILL DR NE    | 1/7/2022                           | Installed   | NA         |

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| 7220 PINE HILL DR NE    |   | Installed  | NA              |
|                         |   |  | NA              |
|                         | •   | _  | NA              |
| 6821 PIXLEY AVE NE      |   |  | NA              |
| 6858 PIXLEY AVE NE      |   |  | NA              |
| 6872 PIXLEY AVE NE      |   | Installed  | NA              |
| 6881 PIXLEY AVE NE      |   | Removed  | NA              |
| 6890 PIXLEY AVE NE      | 11/18/2021  | Installed  | NA              |
| 6918 PIXLEY AVE NE      | 10/26/2021  | Installed  | NA              |
| 6932 PIXLEY AVE NE      |   | Removed  | NA              |
| 6950 PIXLEY AVE NE      |   | Installed  | NA              |
| 6990 PIXLEY AVE NE      |   | Removed  | NA              |
| 2345 POST DR NE         | 10/22/2020  | Installed  | Installed       |
| 2374 POST DR NE         | 12/16/2020  | Removed  | Installed       |
| 6170 ROGUE LN NE        | 11/29/2023  | Installed  | NA              |
| 6194 ROGUE LN NE        | 11/28/2023  | Installed  | NA              |
| 8230 ROGUE RIDGE NE     |   | NA   | Installed       |
| 2300 ROGUE RIVER RD NE  | 10/19/2020  | NA   | Installed       |
| 2317 ROGUE RIVER RD NE  | 11/19/2020  | Removed  | NA              |
| 2332 ROGUE RIVER RD NE  | 11/11/2020  | NA   | Installed       |
| 2340 ROGUE RIVER RD NE  | 11/11/2020  | NA   | Installed       |
| 2345 ROGUE RIVER RD NE  | 11/2/2020   | Removed  | NA              |
| 2364 ROGUE RIVER RD NE  | 11/11/2020  | NA   | Installed       |
| 2367 ROGUE RIVER RD NE  | 11/16/2020  | Installed  | NA              |
| 2377 ROGUE RIVER RD NE  | 10/30/2020  | Removed  | NA              |
| 2480 ROGUE RIVER RD NE  | 9/15/2020   | NA   | Installed       |
| 2560 ROGUE RIVER RD NE  | 10/7/2020   | NA   | Installed       |
| 2626 ROGUE RIVER RD NE  | 1/13/2021   | NA   | Installed       |
| 2739 ROGUE RIVER RD NE  | 12/18/2020  | Removed  | NA              |
| 2760 ROGUE RIVER RD NE  | 12/9/2020   | NA   | Installed       |
| 2791 ROGUE RIVER RD NE  | 11/2/2023   | Removal Scheduled  | NA              |
| 2803 ROGUE RIVER RD NE  | 12/20/2023  | Installed  | NA              |
| 2805 ROGUE RIVER RD NE  | 11/8/2023   | Installed  | NA              |
| 2807 ROGUE RIVER RD NE  | 11/20/2023  | Installed  | NA              |
| 2809 ROGUE RIVER RD NE  | 11/13/2023  | Installed  | NA              |
| 2811 ROGUE RIVER RD NE  | 11/20/2023  | Installed  | NA              |
| 3093 ROGUE RIVER RD NE  | 1/25/2021   | NA   | Installed       |
| 3191 ROGUE RIVER RD NE  | 12/10/2020  | NA   | Installed       |
| 2960 ROYAL HANNAH DR NE | 7/27/2020   | Removed  | NA              |
| 2963 ROYAL HANNAH DR NE | 7/16/2020   | Installed  | Installed       |
| 2972 ROYAL HANNAH DR NE | 7/15/2020   | Installed  | NA              |
| 2975 ROYAL HANNAH DR NE | 9/2/2020  | Installed  | No Longer Using |
| 2988 ROYAL HANNAH DR NE | 7/9/2020  | Removed  | NA NA           |
| 2989 ROYAL HANNAH DR NE | 7/22/2020   | Removed  | Installed       |
| 3000 ROYAL HANNAH DR NE | 7/9/2020  | Removed  | NA              |
| 3003 ROYAL HANNAH DR NE | 7/22/2020   | Removed  | Installed       |
| 3016 ROYAL HANNAH DR NE | 6/25/2020   | Removed  | Installed       |
| 3019 ROYAL HANNAH DR NE | 7/16/2020   | Removed  | No Longer Using |
| 3030 ROYAL HANNAH DR NE | 7/16/2020   | Removed  | NA              |
| 3035 ROYAL HANNAH DR NE | 7/20/2020   | Removed  | Installed       |
|                         |   |  |                 |
|                         | 7220 PINE HILL DR NE 7235 PINE HILL DR NE 7758 PINE ISLAND CT NE 7800 PINE ISLAND CT NE 7450 PINE ISLAND DR NE 6817 PIXLEY AVE NE 6821 PIXLEY AVE NE 6858 PIXLEY AVE NE 6858 PIXLEY AVE NE 68690 PIXLEY AVE NE 6990 PIXLEY AVE NE 2345 POST DR NE 2374 POST DR NE 2374 POST DR NE 2374 POST DR NE 2374 POST DR NE 2317 ROGUE RIVER RD NE 2317 ROGUE RIVER RD NE 2317 ROGUE RIVER RD NE 2340 ROGUE RIVER RD NE 2340 ROGUE RIVER RD NE 2345 ROGUE RIVER RD NE 2346 ROGUE RIVER RD NE 2367 ROGUE RIVER RD NE 2377 ROGUE RIVER RD NE 2377 ROGUE RIVER RD NE 2377 ROGUE RIVER RD NE 2379 ROGUE RIVER RD NE 2480 ROGUE RIVER RD NE 2560 ROGUE RIVER RD NE 2570 ROGUE RIVER RD NE 2580 ROGUE RIVER RD NE 2591 ROGUE RIVER RD NE 2791 ROGUE RIVER RD NE 2791 ROGUE RIVER RD NE 2803 ROGUE RIVER RD NE 2803 ROGUE RIVER RD NE 2805 ROGUE RIVER RD NE 2807 ROGUE RIVER RD NE 2807 ROGUE RIVER RD NE 2908 ROGUE RIVER RD NE 2911 ROGUE RIVER RD NE 2807 ROGUE RIVER RD NE 2908 ROGUE RIVER RD NE 2909 ROGUE RIVER RD NE 2909 ROGUE RIVER RD NE 2907 ROGUE RIVER RD NE 2907 ROGUE RIVER RD NE 2908 ROGUE RIVER RD NE 2909 ROGUE RIVER RD NE 2909 ROGUE RIVER RD NE 2907 ROGUE RIVER RD NE 2908 ROGUE RIVER RD NE 2909 ROGUE RIVER RD NE 3000 ROYAL HANNAH DR NE | Address   12/13/2021   12/14/2021   12/13/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2023   12/14/2023   12/14/2023   12/14/2023   12/14/2023   12/14/2023   12/14/2023   12/14/2023   12/14/2023   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2021   12/14/2022   12/14/ | Address         |

| PPN          | Address                 | Municipal Water<br>Connection Date | POET Status                  | POU Status          |
|--------------|-------------------------|------------------------------------|------------------------------|---------------------|
| 410634227071 | 3056 ROYAL HANNAH DR NE | 7/15/2020                          | Removed                      | Installed           |
| 410634227072 | 3070 ROYAL HANNAH DR NE | 7/14/2020                          | Removed                      | Installed           |
| 410634227055 | 3081 ROYAL HANNAH DR NE | 5/20/2020                          | Removed                      | NA                  |
| 410634227054 | 3099 ROYAL HANNAH DR NE | 8/24/2020                          | Removed                      | NA                  |
| 410628452029 | 9210 SAG HARBOR CT NE   | 10/5/2022                          | Installed                    | NA                  |
| 110628452025 | 9242 SAG HARBOR CT NE   | 11/1/2023                          | Installed                    | NA                  |
| 410634227033 | 2982 SIR CHARLES DR NE  | 7/21/2020                          | Installed                    | Installed           |
| 110634227034 | 2983 SIR CHARLES DR NE  | 6/24/2020                          | Removed                      | NA                  |
| 110634227032 | 2988 SIR CHARLES DR NE  | 7/14/2020                          | NA                           | Installed           |
| 110634227035 | 2989 SIR CHARLES DR NE  | 7/27/2020                          | Removed                      | NA                  |
| 110634227029 | 3012 SIR CHARLES DR NE  | 7/21/2020                          | Removed                      | NA                  |
| 110634227028 | 3024 SIR CHARLES DR NE  | 7/27/2020                          | Removed                      | NA                  |
| 110634227026 | 3050 SIR CHARLES DR NE  | 10/5/2020                          | Installed                    | NA                  |
| 10634227025  | 3062 SIR CHARLES DR NE  | 6/17/2020                          | Removed                      | NA                  |
| 111009428001 | 2241 SPRUCEWOOD CT NE   | 12/23/2021                         | Installed                    | NA                  |
| 111009428002 | 2250 SPRUCEWOOD CT NE   | 1/11/2022                          | Installed                    | NA                  |
| 111009428003 | 2260 SPRUCEWOOD CT NE   | 5/18/2022                          | NA                           | Installed           |
| 111009428004 | 2265 SPRUCEWOOD CT NE   | 11/2/2021                          | Removed                      | NA                  |
| 111004127010 | 2020 SQUIREWOOD CT NE   | 7/25/2023                          | Removed                      | NA                  |
| 111004127013 | 2021 SQUIREWOOD CT NE   | 10/13/2023                         | Removed                      | NA                  |
| 111004127012 | 2045 SQUIREWOOD CT NE   | 8/25/2023                          | Installed                    | NA                  |
| 11004127011  | 2050 SQUIREWOOD CT NE   | 7/31/2023                          | Removed                      | NA                  |
| 11004127008  | 8200 SQUIREWOOD DR NE   | 11/9/2023                          | Installed                    | NA                  |
| 11004127007  | 8215 SQUIREWOOD DR NE   | 9/27/2023                          | Installed                    | Installed           |
| 111004127006 | 8239 SQUIREWOOD DR NE   | 7/26/2023                          | Removed                      | No Longer Using     |
| 111004127009 | 8250 SQUIREWOOD DR NE   | 8/22/2023                          | Removed                      | No Longer Using     |
| 111004127005 | 8255 SQUIREWOOD DR NE   | 8/16/2023                          | Removal Scheduled            | NA                  |
| 111004127004 | 8281 SQUIREWOOD DR NE   | 7/26/2023                          | Removed                      | NA                  |
| 111004127003 | 8303 SQUIREWOOD DR NE   | 9/28/2023                          | Installed                    | NA                  |
| 111004127002 | 8359 SQUIREWOOD DR NE   | 7/7/2023                           | Removed                      | NA                  |
| 111004127001 | 8375 SQUIREWOOD DR NE   | 8/16/2023                          | Installed                    | NA                  |
| 10635351007  | 3221 STONERIDGE DR NE   | 6/25/2021                          | Installed                    | Installed           |
| 10635351008  | 3232 STONERIDGE DR NE   | 7/9/2021                           | Installed                    | NA                  |
| 110635351006 | 3233 STONERIDGE DR NE   | 7/16/2021                          | Removal Scheduled            | Installed           |
| 10635351009  | 3256 STONERIDGE DR NE   | 8/19/2021                          | Installed                    | NA                  |
| 10635351005  | 3261 STONERIDGE DR NE   | 8/4/2021                           | Installed                    | NA                  |
| 10635351010  | 3284 STONERIDGE DR NE   | 6/29/2021                          | Installed                    | Removed             |
| 10635351003  | 3313 STONERIDGE DR NE   | 6/29/2021                          | Installed                    | NA                  |
| 10635351002  | 3343 STONERIDGE DR NE   | 8/27/2021                          | Installed                    | Installed           |
| 110635351013 | 3380 STONERIDGE DR NE   | 7/1/2021                           | Removed                      | NA                  |
| 10635351001  | 3383 STONERIDGE DR NE   | 7/27/2021                          | Installed                    | Installed           |
| 111009251015 | 7299 TERRIE LYNN DR NE  | 12/10/2021                         | Installed                    | NA                  |
| 111009251006 | 7318 TERRIE LYNN DR NE  | 12/8/2021                          | Installed                    | NA                  |
| 111009251014 | 7325 TERRIE LYNN DR NE  | 12/9/2021                          | Installed                    | NA                  |
| 111009251007 | 7336 TERRIE LYNN DR NE  | 12/8/2021                          | Installed                    | NA<br>NA            |
| 111009251013 | 7339 TERRIE LYNN DR NE  | 12/7/2021                          | Removed                      | NA<br>Installed     |
| 111009251012 | 7347 TERRIE LYNN DR NE  | 12/22/2021                         | Installed                    | Installed           |
| 411009251008 | 7354 TERRIE LYNN DR NE  | 12/9/2021                          | Removed                      | NA<br>NA            |
| 111009251011 | 7355 TERRIE LYNN DR NE  | 12/7/2021                          | Removed                      | NA<br>NA            |
| 111009251010 | 7371 TERRIE LYNN DR NE  | 9/28/2021                          | Installed  Removal Schoduled | NA<br>NA            |
| 111010303007 | 2555 VAN DAM DR NE      | 12/6/2021                          | Removal Scheduled            | NA<br>In the II and |
| 11010353002  | 2566 VAN DAM DR NE      | 2/7/2022                           | Installed                    | Installed           |
| 111010326002 | 2615 VAN DAM DR NE      | 10/25/2021                         | Removed                      | NA<br>NA            |
| 411010376003 | 2630 VAN DAM DR NE      | 6/14/2022                          | Installed                    | NA                  |

| PPN          | Address                   | Municipal Water<br>Connection Date | POET Status       | POU Status      |
|--------------|---------------------------|------------------------------------|-------------------|-----------------|
| 411010326003 | 2635 VAN DAM DR NE        | 10/25/2021                         | Removed           | NA              |
| 411010376009 | 2700 VAN DAM DR NE        | 5/12/2022                          | Installed         | NA              |
| 411010376011 | 2720 VAN DAM DR NE        | 5/2/2022                           | Installed         | NA              |
| 411010326024 | 2755 VAN DAM DR NE        | 12/9/2021                          | Installed         | NA              |
| 411010376015 | 2800 VAN DAM DR NE        | 12/14/2021                         | Removed           | NA              |
| 411010327001 | 2920 VAN DAM DR NE        | 12/2/2021                          | Installed         | NA              |
| 411022251001 | 5875 VERTA DR NE          | 10/26/2020                         | NA                | Installed       |
| 411005126063 | 8331 WATEREDGE DR NE      | 10/26/2023                         | NA                | Installed       |
| 411005126045 | 8396 WATEREDGE DR NE      | 11/7/2023                          | NA                | Installed       |
| 411022401004 | 6334 WEST RIVER DR NE     | 10/8/2020                          | NA                | No Longer Using |
| 411022276009 | 6419 WEST RIVER DR NE     | 10/8/2020                          | NA                | Installed       |
| 411023100028 | 6581 WEST RIVER DR NE     | 11/20/2020                         | NA                | Installed       |
| 411023100029 | 6601 WEST RIVER DR NE     | 12/11/2020                         | NA                | Installed       |
| 411015201024 | 6688 WILDWOOD CREEK DR NE | 10/13/2021                         | Installed         | NA              |
| 411015201023 | 6724 WILDWOOD CREEK DR NE | 11/18/2021                         | Installed         | NA              |
| 411015201017 | 6790 WILDWOOD CREEK DR NE | 10/18/2021                         | Installed         | NA              |
| 411010376019 | 6800 WILDWOOD CREEK DR NE | 10/11/2021                         | Removed           | NA              |
| 411010376024 | 6814 WILDWOOD CREEK DR NE | 10/7/2021                          | Installed         | NA              |
| 411010376021 | 6815 WILDWOOD CREEK DR NE | 1/11/2022                          | Installed         | NA              |
| 411010376022 | 6826 WILDWOOD CREEK DR NE | 12/14/2021                         | Removed           | NA              |
| 411010377005 | 6833 WILDWOOD CREEK DR NE | 12/16/2021                         | Removed           | NA              |
| 411010377004 | 6840 WILDWOOD CREEK DR NE | 10/19/2021                         | Removed           | NA              |
| 411010377006 | 6859 WILDWOOD CREEK DR NE | 10/6/2021                          | Removed           | NA              |
| 411010377003 | 6868 WILDWOOD CREEK DR NE | 10/5/2021                          | Installed         | NA              |
| 411010377002 | 6884 WILDWOOD CREEK DR NE | 10/19/2021                         | Removed           | NA              |
| 411010377001 | 6900 WILDWOOD CREEK DR NE | 10/5/2021                          | Installed         | NA              |
| 410634152010 | 2540 WINDING RIDGE TRL NE | 6/19/2023                          | Removed           | NA              |
| 410634152008 | 2580 WINDING RIDGE TRL NE | 6/7/2023                           | Removed           | NA              |
| 410635353001 | 8415 WINDSTONE DR NE      | 7/1/2021                           | Installed         | NA              |
| 410635353008 | 8440 WINDSTONE DR NE      | 7/21/2021                          | Removed           | NA              |
| 410635353002 | 8443 WINDSTONE DR NE      | 7/12/2021                          | Removed           | NA              |
| 410635353003 | 8475 WINDSTONE DR NE      | 7/7/2021                           | Installed         | Installed       |
| 410635353010 | 8496 WINDSTONE DR NE      | 7/13/2021                          | Removed           | NA              |
| 410635353004 | 8497 WINDSTONE DR NE      | 8/20/2021                          | Removed           | NA              |
| 410635353005 | 8500 WINDSTONE DR NE      | 10/29/2021                         | Installed         | NA              |
| 410635354004 | 8435 WOLVEN AVE NE        | 7/7/2021                           | Installed         | NA              |
| 410635376004 | 8500 WOLVEN AVE NE        | 7/1/2021                           | Removed           | NA              |
| 410635354006 | 8515 WOLVEN AVE NE        | 7/6/2021                           | Removed           | NA              |
| 410635376002 | 8520 WOLVEN AVE NE        | 7/28/2021                          | Removed           | NA              |
| 410635354001 | 8535 WOLVEN AVE NE        | 12/8/2021                          | Installed         | NA              |
| 410635376003 | 8540 WOLVEN AVE NE        | 11/12/2021                         | Installed         | NA              |
| 410635326015 | 8600 WOLVEN AVE NE        | 8/17/2021                          | Installed         | NA              |
| 410635326014 | 8620 WOLVEN AVE NE        | 12/7/2021                          | Installed         | NA              |
| 410635301009 | 8655 WOLVEN AVE NE        | 7/2/2021                           | Removal Scheduled | NA              |
| 410635301003 | 8685 WOLVEN AVE NE        | 8/23/2021                          | Installed         | NA              |
| 410635301017 | 8767 WOLVEN AVE NE        | 7/14/2021                          | Installed         | NA              |
| 410635100015 | 8944 WOLVEN AVE NE        | 11/30/2021                         | Removed           | NA              |

#### Notes:

- 1) Addresses on this list are in Municipal Water Areas per the Consent Decree and have been connected.
- 2) Abbreviations Include:
- "POET" indicates point-of-entry treatment filter.
- "POU" indicates point-of-use filter.
- "NA" indicates not applicable.

| PPN          | Address                   | POET Status | POU Status      |
|--------------|---------------------------|-------------|-----------------|
| 410636101010 | 4010 11 MILE RD NE        | NA          | Installed       |
| 411010151009 | 7275 BELMONT AVE NE       | Installed   | NA              |
| 411010151007 | 7319 BELMONT AVE NE       | Installed   | NA              |
| 411010151012 | 7335 BELMONT AVE NE       | Installed   | NA              |
| 411010151011 | 7363 BELMONT AVE NE       | Installed   | NA              |
| 411010151003 | 7385 BELMONT AVE NE       | Installed   | NA              |
| 411003351006 | 7675 BELMONT AVE NE       | Installed   | NA              |
| 411003351005 | 7685 BELMONT AVE NE       | Installed   | NA              |
| 411003353002 | 7757 BELMONT AVE NE       | Removed     | NA              |
| 411003301004 | 7815 BELMONT AVE NE       | Installed   | NA              |
| 411003301003 | 7877 BELMONT AVE NE       | Installed   | NA              |
| 411003301002 | 7923 BELMONT AVE NE       | Installed   | NA              |
| 411003301001 | 7965 BELMONT AVE NE       | Removed     | NA              |
| 411016126017 | 6701 BLUE RIDGE DR NE     | Installed   | NA              |
| 411009376011 | 6801 BLUE RIDGE DR NE     | Installed   | NA              |
| 411010101026 | 7447 CLOUDBERRY LN NE     | Installed   | NA              |
| 411010101027 | 7485 CLOUDBERRY LN NE     | Installed   | NA              |
| 411010101028 | 7525 CLOUDBERRY LN NE     | Installed   | NA              |
| 411010101029 | 7555 CLOUDBERRY LN NE     | Installed   | NA              |
| 411010151018 | 7296 HICKORY TRL NE       | Installed   | NA              |
| 411010151022 | 7303 HICKORY TRL NE       | Installed   | NA              |
| 411010151017 | 7304 HICKORY TRL NE       | Installed   | NA              |
| 411010151023 | 7309 HICKORY TRL NE       | Installed   | Installed       |
| 411010151024 | 7311 HICKORY TRL NE       | Installed   | NA              |
| 411002300033 | 3310 HOUSE ST NE          | NA          | Installed       |
| 411002300053 | 3344 HOUSE ST NE          | NA          | Installed       |
| 411016376022 | 6175 MAKSIMOWSKI AVE NE   | Installed   | NA              |
| 411001276002 | 8144 NORTHLAND DR NE      | NA          | Removed         |
| 411001251006 | 8159 NORTHLAND DR NE      | NA          | Installed       |
| 411001251003 | 8215 NORTHLAND DR NE      | NA          | Installed       |
| 411010176015 | 7349 PACKER DR NE         | Installed   | NA              |
| 411010101025 | 2430 PERSIMMON PL NE      | Installed   | NA              |
| 411010101016 | 2455 PERSIMMON PL NE      | Installed   | NA              |
| 411010101024 | 2460 PERSIMMON PL NE      | Installed   | NA              |
| 411010101022 | 2530 PERSIMMON PL NE      | Installed   | NA              |
| 411010101021 | 2570 PERSIMMON PL NE      | Installed   | NA              |
| 411016126026 | 1939 POST DR NE           | Removed     | NA              |
| 411016201011 | 2101 POST DR NE           | Installed   | NA              |
| 411016201007 | 2141 POST DR NE           | Installed   | NA              |
| 411011151001 | 3361 RIO ROGUE LN NE      | NA          | Installed       |
| 411010200017 | 7550 ROGUEWOOD DR NE      | NA          | Removed         |
| 411010101032 | 2250 ROLLING MEADOW DR NE | Installed   | NA              |
| 411010101001 | 2255 ROLLING MEADOW DR NE | Removed     | NA              |
| 411010101031 | 2280 ROLLING MEADOW DR NE | Installed   | Installed       |
| 411010101002 | 2285 ROLLING MEADOW DR NE | Installed   | NA              |
| 411010101003 | 2313 ROLLING MEADOW DR NE | Installed   | No Longer Using |
| 411010101030 | 2320 ROLLING MEADOW DR NE | Removed     | NA              |
| 411010101004 | 2355 ROLLING MEADOW DR NE | Installed   | Installed       |
| 411010101005 | 2435 ROLLING MEADOW DR NE | Removed     | NA              |
| 411010101006 | 2465 ROLLING MEADOW DR NE | Installed   | NA              |
| 411010101013 | 2480 ROLLING MEADOW DR NE | Installed   | NA              |
| 411010101007 | 2495 ROLLING MEADOW DR NE | Removed     | NA              |
| 411010101012 | 7460 STEEPLEBUSH LN NE    | Installed   | NA              |
| 411010101020 | 7465 STEEPLEBUSH LN NE    | Installed   | NA              |
| 411010101011 | 7490 STEEPLEBUSH LN NE    | Installed   | NA              |
| 411010101019 | 7495 STEEPLEBUSH LN NE    | Removed     | NA              |
| 411010101010 | 7520 STEEPLEBUSH LN NE    | Installed   | NA              |
|              | 7545 STEEPLEBUSH LN NE    | Removed     | NA              |

### TABLE 4

| PPN          | Address                     | POET Status | POU Status      |
|--------------|-----------------------------|-------------|-----------------|
| 411004427023 | 2263 STRAWBERRY FARMS ST NE | Installed   | Removed         |
| 411004427002 | 2270 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411004427022 | 2323 STRAWBERRY FARMS ST NE | Installed   | Installed       |
| 411004427004 | 2330 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411004427005 | 2360 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411004427006 | 2390 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411003352005 | 2400 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411003352001 | 2405 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411003352002 | 2469 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411003352008 | 2470 STRAWBERRY FARMS ST NE | Installed   | Installed       |
| 411003352009 | 2500 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411003352010 | 2530 STRAWBERRY FARMS ST NE | Installed   | Installed       |
| 411003352004 | 2555 STRAWBERRY FARMS ST NE | Installed   | NA              |
| 411004427021 | 7777 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427007 | 7778 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427008 | 7800 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427020 | 7803 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427019 | 7817 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427009 | 7834 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427018 | 7835 STRAWBERRY LN NE       | Installed   | No Longer Using |
| 411004427010 | 7876 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427011 | 7900 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427016 | 7909 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427015 | 7917 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427014 | 7925 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427013 | 7933 STRAWBERRY LN NE       | Installed   | Installed       |
| 411004427012 | 7936 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427024 | 7969 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427028 | 7970 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427025 | 7985 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427027 | 7988 STRAWBERRY LN NE       | Installed   | NA              |
| 411004427026 | 8000 STRAWBERRY LN NE       | Installed   | Installed       |
| 410625326005 | 9490 SUMMIT AVE NE          | NA          | Removed         |
| 410625301014 | 4184 TRADEWIND DR NE        | NA          | Installed       |
| 410626200009 | 3640 VERSCHEL DR NE         | NA          | Installed       |
| 410625301037 | 3848 WHIRLWIND DR NE        | NA          | No Longer Using |
| 410625301058 | 4117 WHIRLWIND DR NE        | NA          | Installed       |
| 410625301060 | 4139 WHIRLWIND DR NE        | NA          | Installed       |
| 410625301061 | 4155 WHIRLWIND DR NE        | NA          | Installed       |
| 410625301015 | 4168 WHIRLWIND DR NE        | NA          | Installed       |
| 410626300014 | 9524 WOLVEN AVE NE          | NA          | Installed       |
| 411015426017 | 6370 WOODWATER DR NE        | NA          | Installed       |

<sup>1)</sup> Addresses on this list are in Filter Areas per the Consent Decree where known PFOS+PFOA concentrations were less than 10 parts per trillion and have not been connected to municipal water through a Consolidation and Contamination Risk Reduction (C2R2) grant.

<sup>2)</sup> Abbreviations Include:

<sup>&</sup>quot;POET" indicates point-of-entry treatment filter.

<sup>&</sup>quot;POU" indicates point-of-use filter.

<sup>&</sup>quot;NA" indicates not applicable.

#### TABLE 5

### POU FILTERS NO LONGER MAINTAINED - FILTER AREAS CONNECTED TO MUNICIPAL WATER Operation and Maintenance of Filters Response Activity Plan

| PPN          | Address                 | Municipal Water<br>Connection Date | POU Status |
|--------------|-------------------------|------------------------------------|------------|
| 410625100022 | 4150 12 MILE RD NE      | 12/18/2023                         | Installed  |
| 411022426002 | 3104 INDIAN DR NE       | 7/27/2022                          | Installed  |
| 411022278007 | 5750 MALL AVE NE        | 6/29/2023                          | Installed  |
| 411015427006 | 3083 RAPIDFALL CT NE    | 1/13/2023                          | Installed  |
| 411022279001 | 3150 RIPLEY ST NE       | 7/12/2023                          | Installed  |
| 411022279003 | 3160 RIPLEY ST NE       | 7/13/2023                          | Installed  |
| 411022279004 | 3180 RIPLEY ST NE       | 7/28/2023                          | Installed  |
| 410625376001 | 9350 SUMMIT AVE NE      | 1/19/2024                          | Installed  |
| 410625315003 | 9489 SUMMIT AVE NE      | 1/17/2024                          | Installed  |
| 410625326003 | 9552 SUMMIT AVE NE      | 12/12/2023                         | Installed  |
| 410625100074 | 9605 SUMMIT AVE NE      | 12/15/2023                         | Installed  |
| 410625100048 | 9630 SUMMIT AVE NE      | 2/20/2024                          | Installed  |
| 410625100032 | 9737 SUMMIT AVE NE      | 12/14/2023                         | Installed  |
| 410625100072 | 9800 SUMMIT AVE NE      | 2/1/2024                           | Installed  |
| 410625100062 | 9958 SUMMIT AVE NE      | 12/6/2023                          | Installed  |
| 411011126007 | 3531 WARWICK GLEN DR NE | 9/6/2023                           | Installed  |
| 411015426026 | 6298 WOODWATER DR NE    | 11/16/2022                         | Installed  |
| 411015427019 | 6399 WOODWATER DR NE    | 12/27/2022                         | Installed  |

### Notes:

- 1) Addresses on this list are in Filter Areas per the Consent Decree where known PFOS+PFOA concentrations were greater than 10 parts per trillion and have been connected to municipal water through a Consolidation and Contamination Risk Reduction (C2R2) grant.
- 2) Abbreviation Includes:

<sup>&</sup>quot;POU" indicates point-of-use filter.

### TABLE 6 POET AND POU FILTERS MAINTAINED - FILTER AREAS Operation and Maintenance of Filters Response Activity Plan

| PPN          | Address                     | POET Status | POU Status |
|--------------|-----------------------------|-------------|------------|
| 410627300006 | 2445 11 MILE RD NE          | NA          | Installed  |
| 410626300021 | 3535 11 MILE RD NE          | Installed   | NA         |
| 410635201012 | 3616 11 MILE RD NE          | Installed   | NA         |
| 410636101011 | 4080 11 MILE RD NE          | NA          | Installed  |
| 410636101007 | 4170 11 MILE RD NE          | NA          | Installed  |
| 411003351004 | 7619 BELMONT AVE NE         | Installed   | NA         |
| 411003353001 | 7781 BELMONT AVE NE         | Installed   | NA         |
| 411010101014 | 7530 CLOUDBERRY LN NE       | Installed   | NA         |
| 411016103007 | 1650 CORNERSTONE CT NE      | Installed   | NA         |
| 410626200024 | 9798 DEER TRL NE            | NA          | Installed  |
| 411010151006 | 7305 HICKORY TRL NE         | Installed   | NA         |
| 411010151004 | 7307 HICKORY TRL NE         | Installed   | NA         |
| 411002300016 | 3335 HOUSE ST NE            | NA          | Installed  |
| 411002300028 | 3515 HOUSE ST NE            | NA          | Installed  |
| 411023303013 | 3246 INDIAN DR NE           | NA          | Installed  |
| 411023303009 | 3252 INDIAN DR NE           | NA          | Installed  |
| 411001151009 | 279 OAK ST NE               | NA          | Installed  |
| 411016201017 | 2153 POST DR NE             | Installed   | NA         |
| 411010101008 | 2525 ROLLING MEADOW DR NE   | Installed   | NA         |
| 411010101009 | 7550 STEEPLEBUSH LN NE      | Installed   | NA         |
| 411004427001 | 2242 STRAWBERRY FARMS ST NE | Installed   | NA         |
| 411003352006 | 2430 STRAWBERRY FARMS ST NE | Installed   | NA         |
| 411003352007 | 2450 STRAWBERRY FARMS ST NE | Installed   | NA         |
| 411003352003 | 2495 STRAWBERRY FARMS ST NE | Installed   | NA         |
| 411003352011 | 2560 STRAWBERRY FARMS ST NE | Installed   | Installed  |
| 411004427017 | 7857 STRAWBERRY LN NE       | Installed   | Installed  |
| 410636101013 | 9105 SUMMIT AVE NE          | NA          | Installed  |
| 410625301011 | 4168 TRADEWIND DR NE        | NA          | Installed  |
| 410625301001 | 4195 TRADEWIND DR NE        | NA          | Installed  |
| 410625301040 | 3823 WHIRLWIND DR NE        | Installed   | NA         |
| 410625301039 | 3826 WHIRLWIND DR NE        | Installed   | NA         |
| 410625301038 | 3830 WHIRLWIND DR NE        | NA          | Installed  |
| 410625301033 | 3900 WHIRLWIND DR NE        | NA          | Installed  |

#### Notes:

- 1) Addresses on this list are in Filter Areas per the Consent Decree where known PFOS+PFOA concentrations were greater than 10 parts per trillion and have not been connected to municipal water through a Consolidation and Contamination Risk Reduction (C2R2) grant.
- 2) Abbreviations Include:
  - "POET" indicates point-of-entry treatment filter.
  - "POU" indicates point-of-use filter.
  - "NA" indicates not applicable.



### APPENDIX A 2020 POET and POU O&M Work Plan



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### REVISION TO POET AND POU O&M WORK PLAN Kent County, Michigan

January 6, 2020 File No. 16.0062335.60

#### PREPARED FOR:

Wolverine World Wide, Inc. Rockford, Michigan

#### Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

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January 6, 2020 POET & POU Work Plan Kent County, Michigan File No. 16.0062335.60 TOC i

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January 6, 2020 POET & POU Work Plan Kent County, Michigan File No. 16.0062335.60 Page 1

#### 1.0 INTRODUCTION

On behalf of Wolverine World Wide, Inc. (Wolverine), Rose & Westra, a Division of GZA GeoEnvironmental, Inc. (R&W/GZA), prepared this Work Plan (WP) summarizing the approach and rationale for proposed revisions to the existing March 2019 Alternate Water Supply Management Plan Point-of-Entry Treatment Systems (POET O&M) and associated supplemental documentation as well as the May 2018 memo, Aquasana 5300+ Point-of-Use Filtration Maintenance (POU O&M). The purpose of this Work Plan is to propose changes to the POET O&M and POU O&M and delineate the changes. This WP will serve as an addendum to those existing documents.

#### 2.0 GENERAL APPROACH & PROPOSED CHANGES

Revisions to the filter O&M plans are proposed because there is significant data on the effectiveness of the filters, the remedial investigations in the North Kent study areas have better defined the extent of PFAS, and municipal water is slated for numerous homes in the study areas having POETs or POUs.

Nearly five thousand monitoring samples have been collected from the mid-point and effluent ports of the POET systems operating over 22 months. The filters have been proven to be highly effective in the removal of PFAS. Additionally, the operation and use has demonstrated that the carbon use on these systems is at least 18 months and/or at least 120,000 gallons even for homes with the highest PFAS concentrations and water use. This is further outlined in the November 2019 memo, *POET Post-Installation Performance Monitoring Sampling Protocol*.

Based on the continued effectiveness of the filter systems, the continued efforts to delineate the extent(s) of contamination, the well-established minimum carbon life for the POETs, and the pending municipal water installation, the following is proposed:

#### **POUS**

• In municipal water areas and filter areas at residences where influent concentrations are above 10 ppt for PFOS+PFOA, WWW will continue to provide replacement cartridges for the NSF-certified POUs, as specified in the existing POU O&M Plan and the manufacturer's suggestion. Two sets of replacement cartridges will be mailed each year to each residence, WWW will stop providing POU replacement cartridges when an individual residence is connected to municipal water.

#### **POETS**

 The existing maintenance and monitoring program will be modified as follows after the effective date of the Consent Decree until the first carbon change out at each individual residence, whichever is earlier, for (a) POETs in municipal water areas, and (b) POETs in filter areas where influent concentrations are above 10 ppt for PFOS+PFOA:

| Current Monitoring<br>Interval | Proposed Monitoring after effective date of the Consent Decree until the first Carbon Change Out at Each Individual Residence | Proposed Carbon Change<br>Out Intervals* |
|--------------------------------|---|--|
| Weekly                         | Monthly   | 6 months                                 |

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| Current Monitoring<br>Interval | Proposed Monitoring after effective date of the Consent Decree until the first Carbon Change Out at Each Individual Residence  | Proposed Carbon Change<br>Out Intervals* |
|--------------------------------|--|--|
| Monthly                        | Quarterly  | 12 months                                |
| Quarterly                      | Semi-Annual  | 16 months                                |
| Semi-Annual                    | None, if sampled since July 1, 2019. If not sampled since July 1, 2019, one additional sample will be collected within the first eight months after Consent Degree is effective.     | 16 months                                |
| Annual                         | None, if sampled since July 1, 2019. If not sampled since July 1, 2019, one additional sample will be collected within the first eight months after the consent decree is effective. | 20 months**                              |

<sup>\*</sup>Carbon change out is removing the lead carbon vessel(s) and replacing with the lag vessel(s), then installing a new vessel(s) in the lag position(s). On a case-by-case basis carbon change outs may occur off-schedule when unique issues such as unexpected pressure drop occurs across the POET system. If a POET has been installed or a carbon change out has occurred at an individual address within six months prior to the effective date of the Consent Decree, that POET system will automatically be put on the carbon change out schedule and monitoring will cease.

- The initial round of carbon change outs will be completed in an approximately 4 to 8-month period after the effective date of the Consent Decree. The change outs will be prioritized by PFAS concentrations, with the current weekly intervals being the first group. Once a carbon change out has occurred at an individual system, the specified carbon change out schedule will begin for that particular address (i.e. if a current weekly system is changed March 1, 2020 as part of the initial change out, the six month schedule will be triggered with the next scheduled change on September 1, 2020 and so on.
- UV lamp and sediment filter maintenance will continue on annual and thrice yearly basis, respectively.
- WWW will stop providing POET monitoring and/or carbon changeout (as specified above) when the individual residence is connected to municipal water.

<sup>\*\*</sup>The change out will occur earlier than 20 months if there is a demonstrated reduction in flow rate or increased pressure drop across the POET prior to the expiration of 20 months (i.e. evidence of physical clogging rather than carbon exhaustion due to PFAS burden).



January 6, 2020 POET & POU Work Plan Kent County, Michigan File No. 16.0062335.60 Page 3

 At the locations with Type II water supplies (i.e. Armory and Convent), the POET systems will be maintained and monitored within their permit requirements until municipal water connections are provided.

This WP will be modified, as needed, if and when new criteria are adopted for PFAS compounds.

#### 3.0 ANTICIPATED SCHEDULE

The schedule for implementation of these changes will commence upon entry of the Consent Decree.

J:\62000\623xx\62335.60-PR and Litigation\WWW-Budget\_Related\Settlement Assistance\POET-POU WP\POET-POU-2019WorkPlan-F3 01062020.docx.



GZA GeoEnvironmental, Inc.



## APPENDIX B 2020 Alternate Water Supply Management Plan Point-of-Entry Treatment Systems



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### Alternate Water Supply Management Plan Point-of-Entry Treatment Systems

Wolverine World Wide, Inc.

January 16, 2018

Revisions: May 15, 2018, October 10, 2018, March 6, 2019,

April 6, 2020, and September 16, 2020

File No. 16.0062335.51/16.0062961.60

#### PREPARED BY:

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#### 1.0 INTRODUCTION

This Alternate Water Supply Management Plan provides a description of the design, installation, operation, and maintenance related to Point-of-Entry Treatment (POET) systems offered to property owners in Plainfield and Algoma Townships, Michigan. Rose & Westra, a Division of GZA (R&W/GZA), has prepared this plan on behalf of Wolverine World Wide, Inc. (Wolverine) for use by Wolverine and its consultants and contractors. This plan, along with the appendices, presents information related to the operation and maintenance (O&M) of the POET systems.

This April 6, 2020 update presents changes pursuant to Consent Decree (CD) No. 1:18-cv-00039-JTM-ESC, effective February 19, 2020. The changes made to the POET O&M are established in Section 7.5 and Appendix L of the CD. The changes are primarily establishing a routine carbon change-out schedule and routine monitoring.

#### 1.1 PROJECT BACKGROUND

In July 2017, Per- and Polyfluoroalkyl Substances (PFAS) were detected in water from a well in the House Street area, and since then, Wolverine has worked with the Michigan Department of Environment, Great Lakes, and Energy (EGLE), the Michigan Department of Health and Human Services (MDHHS), and the Kent County Health Department (KCHD) to sample private wells in the area. Wolverine immediately provided bottled water to potentially affected residences and available results have been shared with individual property owners and will continue to be shared as additional sampling takes place. Wolverine has provided and installed point-of-use (POU) and whole house POET systems. A separate maintenance memorandum has been completed for the POU filters. This is included as **Appendix A**. Since 2017, Wolverine has sampled over 1500 homes and installed and maintained over 530 POET systems. In addition, Wolverine has collected thousands of performance samples for the POET systems.

#### 1.2 PLAN ORGANIZATION

This plan includes the following sections:

- Section 1 Introduction: Provides an overview and background of the project objectives.
- Section 2 Residential Well Identification, Monitoring, and Bottled Water Service: Provides an overview of the search areas, and past and future sampling plans.
- Section 3 Communications with Affected Property Owners: Provides a description of communications with affected property owners.
- Section 4 POET Systems: Presents a description of the POET systems and operation overview.
- Section 5 O&M: Summarizes the O&M plans for the POET systems.
- Section 6 Monitoring: Presents a description of work of the sampling and analysis plan for the POET systems.
- Section 7 Cessation: Presents a description of the cessation of the POET system O&M as provided by Wolverine.

#### 2.0 RESIDENTIAL WELL IDENTIFICATION, MONITORING, AND BOTTLED WATER SERVICE

#### 2.1 <u>INITIAL ACTIVITIES</u>

Following the detection of PFAS in the House Street area, Wolverine began working with EGLE and MDHHS/KCHD to sample wells in the area. Wolverine offered to sample wells within the various sampling areas associated with





House Street as well as those in Wolven/Jewell, and provided bottled water while the laboratory results were pending.

#### 2.2 PRIVATE WELL SAMPLING

If a drinking-water well was present on the property, permission to collect a groundwater sample for laboratory analysis was requested by R&W/GZA. R&W/GZA has maintained a list of locations where private wells have or have not been sampled. Additional residential drinking water well resampling will be conducted as part of the CD implementation (per Residential Well Resampling RAP, draft submitted May 2020). However, that sampling will be completed under a separate work plan.

#### 3.0 COMMUNICATIONS WITH AFFECTED PROPERTIES

All members of the public can access the following websites to learn about the groundwater investigation and communications:

- Wolverine groundwater project website http://www.WeAreWolverine.com/
- KCHD website <a href="https://www.accesskent.com/Health/PFAS/belmont.htm">https://www.accesskent.com/Health/PFAS/belmont.htm</a>
- MDHHS <a href="https://www.michigan.gov/mdhhs/">https://www.michigan.gov/mdhhs/</a>
- Plainfield Charter Township <a href="https://www.plainfieldmi.org">https://www.plainfieldmi.org</a>
- Algoma Township https://www.algomatwp.org
- MPART Michigan PFAS Action Response Team https://www.michigan.gov/pfasresponse

Additionally, each residence with a POET system installed was provided a reference card with contact information. A copy of the current reference card is included in **Appendix B**. A copy of the card has been provided to POET owners for which Wolverine currently maintains O&M responsibility.

Wolverine provides regular communication to the residents, including routine sample results, changes to the monitoring schedule, the above-mentioned reference card, and correspondence about general O&M. This communication is completed via email, mail, and telephone.

#### 4.0 POET SYSTEMS

#### 4.1 TREATMENT SYSTEM DESCRIPTION

POET systems were installed to treat water as it enters the building from the private well. Generally, the system was installed following the softener for wells with concentrations of PFOS+PFOA less than 70 parts per trillion (ppt). When the well concentration exceeds 70 ppt for PFOS+PFOA, the system was installed prior to the softener, thus treating all of the water. POET systems were typically installed where the existing water utilities were located, if space was available. Based on this installation, POET systems are designed to provide treated water to all fixtures such as sinks, showers/baths, and toilet and outside spigots when the concentration of PFOS+PFOA exceeds 70 ppt. If sample results find that the concentrations of PFOS+PFOA increases from below 70 ppt to above 70 ppt, the POET system will be re-piped to perform treatment prior to water softening.

Although the foregoing is a general rule regarding the installation, it should not be inferred that an installation following the softener will provide treatment for all Drinking Water Fixture Units (DFUs) in the home/building.





Pre-softener branch service lines are common for drinking water taps and automatic-ice makers. As such, multiple inspections were performed to locate and treat all interior DFUs. An initial inspection (pre-installation) was performed by Culligan, the installer. Following installation, an initial sampling event was scheduled. The R&W/GZA sampling team reviewed and completed a checklist of the installation. One of the checklist items was to check for interior lines that were not piped to the influent of the POET systems.

The POET systems remove PFAS compounds through adsorption to granulated activated carbon (GAC). GAC is used in common household filters and POET systems, and have a proven track record for many applications, including for treatment of PFAS at multiple sites across the U.S. Additional information about GAC is provide in **Appendices D and E**. The POET systems connect to the existing water supply and distribution within the house. For commercial properties and high-water use residences, Wolverine has modified the typical installation to address additional requirements (as applicable). Multiple GAC columns have been installed in some situations.

The Culligan O&M Manual is included as **Appendix C** for reference/informational purposes only. A schematic of a typical POET system is also included in **Appendix C**. Provided below is a description of the major components of the POET system:

- Pre-filter:
  - o Removes sand and sediment from the well water.
- Lead GAC:
  - Removes PFAS and other constituents that sorb to GAC. The GAC vessels are filled with Calgon F600 AW GAC. A typical POET system utilizes a 2-cubic-foot GAC vessel; however, in locations with the highest concentrations or high flows, multiple 2-cubic-foot vessels are utilized.
- Lag GAC:
  - o Redundant vessel in case breakthrough occurs on the lead GAC.
- Post-filter:
  - o Removes sand and sediment from treated water.
- Flow meter:
  - Monitors the volume of water treated/used.
- Ultra-Violet (UV) Lamp:
  - Removes bacteria that may be in the well water or present within the GAC vessels.

The nominal Empty Bed Contact Time (EBCT) is 4 minutes. This is controlled by restricting the maximum flow through the system to 8 gallons per minute (gpm). If it is determined that the user requires more than 8 gpm, a four column GAC system was installed to allow for a "high flow" water use of 16 gpm. There is no set protocol for installing the "high-flow" four-column system. In each building, its drinking water supply and needs was reviewed individually. The review may have included, but was not necessarily limited to, inlet water pressure, pressure loss with flow, DFU's, number of occupants, and size of home. A second criterion for the installation of multiple GAC columns was PFOS+PFOA concentration. Installations with total PFAS concentrations that exceed 7,500 ppt were identified as "high concentration" installations. The nominal EBCT for high concentration installations is 8 minutes.





#### 4.2 OPERATION OVERVIEW

The POET systems operate using the existing water supply and pressurized flow from the existing pressure tank (or well pump if a pressure tank is not present) within the house. No additional pumps are needed as the water flows through the POET system and the PFAS are filtered out. The UV lamp is connected to household electrical service, but everything else is operated through hydraulic pressure provided by the existing pressure tank (or well pump). Once the water passes through the POET system, it enters the existing piping network within the house.

Sampling ports were installed prior to the POET systems, between the lead and lag GAC units, and after the POET systems to monitor performance (Section 6.0). Routine maintenance (Section 5.0) is completed by Culligan and monitoring is completed by R&W/GZA. The maintenance and monitoring are performed at Wolverine's expense.

All maintenance is pre-scheduled and does not require significant downtime (i.e., more than several hours). Residents are notified by the service representative before the water supply is temporarily interrupted so they may fill containers with water if needed during the service call. While it is unlikely a circumstance would occur that a POET system is down for maintenance other than a brief period during service, Wolverine will offer bottled water to residents in the event a long-term down period occurs.

In filter areas, if a parcel is resampled and the PFOS+PFOA is greater than 10 ppt or other applicable PFAS criterion is identified as defined in the CD, that resident will be offered a POU filter which Wolverine will maintain as outlined in the POU O&M memo.

#### 4.3 POET SYSTEM STARTUP

An initial site visit was completed by Culligan to assess the existing water system and to select the optimal location for installation of the POET system. The basement has generally been identified as the optimal location for the POET system; however, if there is insufficient space, an alternative location may need to be identified.

Culligan then installed the system(s) as shown in **Appendix C** and in accordance with applicable plumbing codes. Approximately 200 gallons of water was flushed through the system to check piping connections, sampling ports, and flowmeter performance. Following the system flush, samples were collected as indicated in Section 6.0.

If the POET system remains dormant for more than three weeks, water should be flushed for a minimum of 25 minutes or 200 gallons or more prior to any use. This information is provided in the resident reference card (**Appendix B**).

#### 4.4 POET SYSTEM SHUTDOWN

In the event that one of the conditions in Section 7 of the CD and the O&M Plan statement of work (SOW) applies to a residence with a POET system, this system may be disconnected and can be removed. This is further discussed in Section 7.0.

Refer to informational **Appendix C** for the procedures for GAC management by Culligan and Calgon. In brief, the GAC will be managed to minimize and control any release of PFAS. The spent carbon will either be transported to Calgon where it will be reactivated and the PFAS will be destroyed or it will be disposed of in an approved landfill facility.





#### 5.0 OPERATION AND MAINTENANCE (O&M)

O&M of the POET systems will be conducted by Culligan in coordination with each homeowner. Monitoring will be completed by R&W/GZA. The maintenance and monitoring will be performed at Wolverine's expense until one of the conditions in Section 7.5(b)-(f) of the CD, and the POET and POU O&M Plan SOW is met for that residence. Culligan contact information was supplied to the homeowner at the time of POET system installation. Routine maintenance for POET systems is well understood given their long-established use but vary for each POET depending on water usage and water chemistry. O&M will be tailored to each POET system based on monitoring (Section 6.0) to be protective of human health and to minimize interruptions for the homeowners once system performance and maintenance requirements have been established.

Homeowners are able to contact Wolverine, R&W/GZA, and/or Culligan directly to request assistance with their POET systems or to ask any questions regarding the system use and O&M.

#### 5.1 PRESSURE/FLOW ISSUES

Reports of low pressure/flow are addressed in several ways; however, in general, the following protocol is used:

- Culligan performs an inspection of the system with the homeowners. The pressure gauges are read with demand. In addition, Culligan performs an informal assessment of the DFU and occupancy to determine if a high-flow system is required.
- If the Culligan review indicates the reported pressure/flow issue relates to the size of the POET system, a high-flow system is installed.
- If the Culligan review finds the influent pressure readings are low, a licensed well contractor will be scheduled to review the system and make adjustments if appropriate. Appropriate adjustments include replacing defective pressure switches and adjusting the pressure switches.
- If the licensed well contractor identifies other causes of pressure or flow issues, these are individually addressed, and corrections are made to resolve the homeowners pressure/flow issues.

#### 5.2 SCHEDULE OF ACTIVITIES

Routine maintenance will be conducted at the following schedule:

- Pre- and post-filter replacement every 4 months;
- A site inspection is completed during filter replacement to assess the condition of the POET system components (the UV quartz sleeve is cleaned, if needed, during these visits);
- UV quartz sleeve and lamp replacement every 12 months; and
- GAC canister replacement based on performance monitoring and as agreed upon in the CD and Section 5.5 of this plan.

The schedule for routine maintenance was established after performance monitoring data was gathered for over 24 months. Homeowners were notified via mail or email of revisions to the O&M schedule. Copies of these notifications have been provided to EGLE.



#### 5.3 WATER USAGE MONITORING

The flow meter volume will be documented at each property during the maintenance and performance monitoring events.

#### 5.4 SEDIMENT FILTER CHANGE OUT

The pre- and post-sediment filter cartridges will be replaced every four months while in the O&M program provided by Wolverine.

The differential pressures across the POET systems will be documented at each property during each maintenance monitoring event. Section 5.0 includes responses to reports of low flow. If pressure readings by Culligan confirm an excessive pressure drop at any point in the system (sediment filter, GAC filter, etc.) that is the cause of a low flow, a correction will be made. These evaluations will be on-going and are specific for each system. Each instance is evaluated and addressed, as applicable.

#### 5.5 GAC VESSEL CHANGE OUT

The frequency of change out of the GAC vessels is established in the February 19, 2020 CD. These change out frequencies are established below:

| Monitoring Interval prior to CD | Proposed Carbon Change Out Intervals* |
|---------------------------------|---------------------------------------|
| Weekly                          | 6 months                              |
| Monthly                         | 12 months                             |
| Quarterly                       | 16 months                             |
| Semi-Annual                     | 16 months                             |
| Annual                          | 20 months**                           |

- \* Carbon change out is removing the lead carbon vessel(s) and moving the lag vessel(s) into the lead position and installing a new vessel(s) in the lag position(s). This is detailed below. On a case-by-case basis, carbon change outs may occur off-schedule when unique issues such as unexpected pressure drop occurs across the POET system. If a POET system has been installed or a carbon change out has occurred at an individual address within six months prior to the Effective Date of the CD, that POET system will automatically be put on the carbon change-out schedule and monitoring will cease. Wolverine, after consultation with and approval from EGLE, may agree to postpone or cancel a scheduled change out to accommodate the scheduled installation of municipal water for the home. For example, if a carbon change out is scheduled 3 months or less prior to the scheduled municipal connection, the change out may be cancelled.
- \*\* The change out will occur earlier than 20 months if there is a demonstrated reduction in flow rate or increased pressure drop across the POET system prior to the expiration of 20 months (i.e., evidence of physical clogging rather than carbon exhaustion due to PFAS burden).

Additionally, if during performance monitoring, a carbon change out will be completed when total PFOS+PFOA concentrations in a sample from the mid-point port (after the lead GAC vessel but prior to the lag GAC vessel) are greater than 35 nanogram per liter (ng/L). If a detection is found in a mid-point sample between the most restrictive, applicable PFAS drinking water criteria and 35 ppt, if an effluent sample was not collected at the same time as that mid-point sample the resident will be contacted as soon as possible to schedule an effluent sampling. The effluent sample will be compared to the trigger levels described in this section.

In addition, the GAC vessels may also be changed out due to reduced water delivery performance resulting from iron/carbonate build-up in the GAC. Pressure drop across the GAC vessels will be assessed during the routine O&M visits.





Routine GAC vessel change out will be conducted as follows:

- Remove the lead GAC vessel;
- Disconnect the lag GAC vessel and install in the lead position; and
- Install a replacement GAC vessel in the lag position.

Consistent with the American Water Works Association Standard 8604, the new media must soak in water for 24 to 48 hours before operation. With the exception of the Armory and Consolata Sisters installations, Culligan prepares a GAC vessel and performs the soak in their shop prior to delivery and installation. By this method, the GAC columns can be delivered and immediately placed into service.

A detection of PFOS+PFOA in a POET system effluent will be reviewed promptly. If the concentration is less than 10 ppt PFOS+PFOA and found on start-up, subsequent sampling will be evaluated. If the result is greater than 10 ppt PFOS+PFOA (or applicable criteria) and rising, the response will include changing out the lead vessel, moving the former lag vessels to the lead position and resampling. Following the receipt of resampling results, water chemistry and water usage data will be reviewed; the system performance will be evaluated; and adjustments will be made to the system as necessary.

For the Armory and Consolata Sisters installations, the systems are designed to allow for the operation of one filter while the replaced carbon is allowed to soak for 24 to 48 hours. If possible, the media in only one filter at a time will be replaced to provide PFAS free water for the 24 to 48 hours needed to soak new media for the Armory and Consolata Sisters installations. Since the performance monitoring of these systems will not change, the above protocol for carbon change out will remain (i.e., based on performance monitoring; not a routine, scheduled interval).

The initial round of carbon change outs will be completed over an approximately four-to-eight month period after the Effective Date of the CD. The change outs will be prioritized by PFAS concentrations, with the pre-CD weekly intervals being the first group. Once a carbon change out has occurred at an individual system, the specified carbon change-out schedule will begin for that particular address (i.e., if a current weekly system is changed March 1, 2020 as part of the initial change out, the six-month schedule will be triggered with the next scheduled change on September 1, 2020 and so on).

#### 5.6 UV SYSTEM MAINTENANCE AND CHANGE OUT

The UV lamp will be replaced on a 12-month basis as indicated by the manufacturer's recommendation.

Cleaning of the UV quartz sleeve is dependent on water hardness. The quartz sleeve will be inspected every four months and, if required, cleaned.

A brightly colored label was placed on the UV units with "Fluorescent Lamp: Do Not Disturb." In addition, this sticker includes "Warning: May contain scalding water."

#### 6.0 MONITORING

The monitoring program was developed to verify POET system performance, inform O&M activities (Section 5.0), and communicate conditions and results to the affected private well owners. The monitoring program includes the sampling and analyses plan, data management, and reporting.



#### 6.1 SAMPLING AND ANALYSIS PLAN

This section provides a sampling and analysis plan (SAP) for monitoring POET systems installed in residences or commercial buildings.

#### The SAP covers:

- Objectives of sampling;
- Sampling schedules;
- Preparation;
- Collection of samples and documentation;
- Sample shipment; and
- Analytical procedures and parameters.

The sampling methods summarized herein will be performed by R&W/GZA on behalf, and under the direction, of Wolverine. The monitoring will be performed at Wolverine's expense.

#### 6.1.1 Objective

The goal of the SAP is to verify that POET systems are operated and maintained in a manner that reduces PFOS+PFOA to concentrations below 10 ng/l or applicable criteria.

#### 6.2 ANALYTICAL METHOD AND PARAMETERS

PFAS will be analyzed using U.S. Environmental Protection Agency (EPA) Method 537 (rev. 1.1). The analytical parameters presented in Table 1 represent the 14 PFAS compounds and reporting limits used to evaluate the POET systems. A baseline water profile was developed for each POET system by analyzing the following parameters at startup: hardness and iron.

#### 6.3 SAMPLING SCHEDULE

Sampling was conducted in three phases: startup, performance, and routine monitoring. Startup monitoring was intended to assess system integrity immediately following installation. Performance monitoring was intended to establish O&M schedules necessary to achieve water quality objective based on site-specific operating conditions. Routine monitoring is designed to monitor system performance on an ongoing basis, once site-specific O&M parameters are defined.

#### 6.3.1 Startup Monitoring

After quality control inspections are complete, but before startup sample collection takes place, approximately 200 gallons were processed through the system by the installer. The treated water was discharged into the homeowner's drain(s) and septic system. Startup samples were collected as follows:

- Homes with previous non-detect well sample: influent only;
- Homes with 1 1,000 ppt total PFOS+PFOA: influent and mid-point sample; and
- Homes with higher than 1,000 ppt total PFOS+PFOA: influent, mid-point, and effluent sample.



#### 6.3.2 Performance Monitoring Schedule

Performance monitoring was conducted to establish lead canister breakthrough time (and an associated treated water volume) to establish an appropriate schedule for routine monitoring and carbon change out. Initial performance sampling was conducted as follows:

- Homes with previous non-detect well sample: annual sampling of the influent. If low level PFOS+PFOA was
  observed in the influent, the home was placed into the 1 70 ppt group;
- Homes with 1 70 ppt total PFOS+PFOA: semi-annual sampling (influent and mid-point). If changes to the
  influent concentration fell into a different concentration range, the sampling frequency was adjusted
  accordingly;
- Homes with 71 1,000 ppt total PFOS+PFOA: Quarterly sampling (influent, mid-point);
- Homes with 1,001 30,000 ppt total PFOS+PFOA: Monthly sampling (influent, mid-point, and effluent); and
- Homes with 30,001+ ppt total PFAS: Weekly sampling (influent, mid-point, effluent).

#### 6.3.3 Routine Monitoring Schedule

A routine monitoring schedule was to be established after a lead vessel breakthrough frequency is established for each system (defined as total PFOS+PFOA > 35 ppt). However, breakthrough was not established prior to the effective date of the CD.

The CD establishes a new routine sampling protocol for the POET systems, summarized in the following.

After the Effective Date of the CD, until the first carbon change out at each individual residence for (a) POET systems in municipal water areas, and (b) POET systems in filter areas where influent concentrations are above 10 ppt for PFOS+PFOA (or any applicable criteria), the following routine monitoring will be performed:

| Influent Concentration<br>Range Interval<br>(PFOS+PFOA ppt) | Monitoring Interval Prior<br>to CD | Proposed Monitoring after Effective Date of the CD until the first Carbon Change Out at Each Individual Residence  |
|---|------------------------------------|--|
| 30,000+ (total PFAS)  | Weekly                             | Monthly  |
| 1,001 - 30,000  | Monthly                            | Quarterly  |
| 71 - 1,000  | Quarterly                          | Semi-Annual  |
| 1 - 70  | Semi-Annual                        | None, if sampled since July 1, 2019. If not sampled since July 1, 2019, one additional sample will be collected within the first eight months after CD is effective.     |
| Non-Detect  | Annual                             | None, if sampled since July 1, 2019. If not sampled since July 1, 2019, one additional sample will be collected within the first eight months after the CD is effective. |

The notification process and GAC change-out triggers are discussed in Section 6.10.1.

After each carbon change out, R&W/GZA will schedule a site visit to confirm configuration and operation of the POET systems.

Once the presumptive carbon change outs begin, the following routine monitoring will be conducted. The sampling will be completed approximately 2 -4 weeks after the individual carbon change out occurs.



| Influent Concentration Range Interval (PFOS+PFOA ppt) | Monitoring<br>Interval Prior<br>to CD | Proposed Carbon<br>Change Out<br>Intervals | Percentage of Random<br>Systems Sampled after GAC<br>Change Out (CO)* | Ports Sampled for<br>Performance Monitoring** |
|---|---------------------------------------|--|---|---|
| 30,000+ (total PFAS)                                  | Weekly                                | 6 months                                   | 100% first GAC CO and 25% subsequent GAC COs                          | IN-MP-EF                                      |
| 1,001 - 30,000  | Monthly                               | 12 months                                  | 100% first GAC CO and 12% subsequent GAC COs                          | IN-MP-EF                                      |
| 71 - 1,000  | Quarterly                             | 16 months                                  | 10%   | IN-MP   |
| 1 - 70  | Semi-Annual                           | 16 months                                  | 5%  | IN-MP   |
| Non-Detect  | Annual                                | 20 months                                  | 5%  | IN  |

<sup>\*</sup>For the three POET systems installed in the filter areas with known influent concentrations over 70 ppt PFOS+PFOA, influent and mid-point monitoring samples will be collected one time between each carbon change out.

At the locations with Type II water supplies (i.e., Armory and Convent), the POET systems will be maintained and monitored within their permit requirements until municipal water connections are provided.

#### 6.4 PREPARATION FOR SAMPLING

A monitoring checklist will be completed for water sample collection at each private well, which also includes information on project contacts and required equipment and supplies. All equipment and supplies, including bottle ware, should be PFAS free.

#### 6.4.1 Bottle Ware

New bottle ware will be used to transport samples for laboratory analyses and will be provided by the laboratory performing the analyses. The bottles will be prepared by the laboratory according to the analytical method and certified as clean. The bottles will not be opened until immediately before sample collection.

#### 6.4.2 Field QA/QC

The following field quality control samples will be collected at a rate of one per 20 samples collected in accordance with the Project Quality Assurance Project Plan (QAPP): Field blanks, field duplicates, and matrix spike/matrix spike duplicates.

- Field blanks will be collected by pouring laboratory-supplied certified PFAS-free water into a sample container
  at the point of sample collection. The purpose of field blanks is to assess potential cross-contamination at the
  sample point.
- Field duplicates will be collected by filling one additional sample container with water from the sample point. The purpose of field duplicates is to assess variability in sample composition. Field duplicates are not intended to be blind duplicates.
- Matrix spike/matrix spike duplicate (MS/MSD) will be collected by filling two additional sets of sample bottles
  with water from the sample point. MS/MSD analyses are conducted by the analytical laboratory after samples
  have been collected and submitted. Analysis of known concentrations of analytes spiked in the MS/MSD
  samples indicate if matrix interference effects are occurring.

<sup>\*\*</sup>IN= Influent, MP = Midpoint, and EF = Effluent





 QA/QC samples will be collected using the methods described in Section 6.7 and labeled as described in Section 6.63 The location of QA/QC samples will be entered into the Monitoring Checklist. QA/QC samples will be analyzed using the same analytical methods used for the primary sample.

#### 6.4.3 Sample Naming and Labels

Sample numbers will consist of identification numbers that include the unique property identification (ID) and the sample port, (e.g., AA-influent, AF-mid-point, CM-effluent, etc.). Sample numbers for each POET system will be repeated for each sampling event with consistent spelling, with the two-digit sample date added to the end (i.e., AA-influent-day/month).

To prevent misidentification of samples, legible labels will be affixed to each sample container. The labels will be sufficiently durable to remain legible even when wet and contain the following information:

- Property ID;
- Sampling port location (i.e., influent, mid-point or effluent as shown on Figure 3);
- Name or initials of collector; and
- Date and time of collection.

#### 6.4.4 <u>Sample Collection Methods</u>

Each POET system treats water at the point where it enters a residence and downstream of any equipment such as pressure tanks. Treatment system components are installed in series and include: two, 2-cubic-foot carbon vessels.

POET systems include three separate sample ports: influent, mid-point, and effluent. The influent port is situated between the pre-filter and lead carbon vessel. The mid-point sample port is situated between carbon vessels. The effluent sample port is situated after the totalizing meter.

#### 6.4.5 <u>Sample Collection</u>

Field personnel will assess whether or not the treatment system has undergone regular use by checking the volume of water processed through the treatment system since the last visit. The field personnel will then check the system for leaks or damage and report any leaks or damage to the R&W/GZA project manager.

Samples will be collected from the effluent, mid-point, and then influent ports using the R&W/GZA Sampling Procedure for PFAS as specified in Standard Operating Procedure B-1 of the project-specific QAPP. Samples will be labeled according to Section 6.3.3, preserved according to Section 6.6.6, and a chain-of-custody (COC) filled out per Section 6.6.7. All samples will be shipped to the laboratory for analysis; the analyte list and reporting limits presented in Table 1 will be followed.

The Project Specific QAPP for PFAS prepared for EGLE by R&W/GZA outlines the sampling procedures. This was submitted to EGLE separate from this management plan.

#### 6.4.6 <u>Sample Preservation and Handling</u>

Samples will be preserved in the field by placing the samples into an insulated cooler containing double-bagged wet ice immediately after sample collection. Upon receipt of the samples, authorized laboratory personnel will store and/or prepare the samples for analysis, taking into consideration the sample holding time.







#### 6.4.7 Chain-of-Custody

Custody of samples, sample collection details (e.g., date, time, ID, requested analyses), shipment information, laboratory receipt, and laboratory custody until completion of analyses will be documented on a COC form. The COC will include the signature of the individuals collecting, shipping, and receiving each sample. Each sample will be entered on the COC. The COC will accompany each set of samples shipped to the laboratory. Each time sample custody changes, the receiving and relinquishing parties will sign, date, and add the time to the COC.

Upon receipt at the laboratory, the contents of the cooler will be compared with the COC. Any discrepancies will be noted on the COC or the laboratory's sample receipt form. If discrepancies occur, the samples in question will be segregated from normal sample storage and the field personnel notified for clarification. COC records will be maintained as part of the project records.

#### 6.5 PURGE WATER

Buckets or other suitable containers will be used to collect purge water from each POET port prior to sample collection. The collected water then will be disposed into the nearest sink or drain at each residence. Discharge of the purge water to the septic system or ground surface is consistent with EGLE interoffice communication regarding purge water disposal from well sampling and development (EGLE, 1999).

#### 6.6 SAMPLE SHIPPING

Sample bottles will be placed into the cooler and packed with double-bagged wet ice immediately following collection. Packing material will be used as necessary. A temperature blank will be placed in the cooler prior to shipment. The cooler shall be addressed to the appropriate laboratory and dispatched as soon as practical to ensure timely arrival.

#### 6.6.1 Custody Seals

In cases where samples are to be shipped to the laboratory by a commercial carrier (e.g., FedEx), a custody seal will be placed on the sample shipping container to ensure the samples have not been disturbed during transport. One seal will be placed on the front of the cooler, across the opening. The seals will be signed and dated by the sampling personnel.

#### 6.7 DATA MANAGEMENT

The objectives of data management include:

- Review of data quality, also known as data validation; and
- Data processing, or tracking and organizing the data using a database management system to facilitate reporting and prevent processing errors.

#### 6.7.1 <u>Preparation for Sampling</u>

A monitoring checklist will be completed for water sample collection at each private well, which also includes information on project contacts and required equipment and supplies. All equipment and supplies, including bottle ware, should be PFAS free.





#### 6.7.2 Data Validation

Data validation will be conducted in accordance with The National Functional Guidelines for Organic and Inorganic Data Review (NFG; EPA, 2008 and 2010) and the revised Project Specific QAPP. A Level 2a review for verification and validation based on completeness and compliance checks of sample receipt conditions and sample-related quality control results. A brief overview of procedures for data validation includes:

- Holding Times: Compare the time and date the sample was collected (on the COC) to the date analyzed in the laboratory report. Verify the dates are within the recommended holding times for the particular method;
- Blank Data (Method, Field, Trip): Verify through blank sample data results that no significant contamination issues exist from sampling activities, sample transport, storage at the sampling site, or laboratory analyses (where applicable);
- Laboratory Control Sample Data, Matrix Spike Data, and/or Surrogate Data: Verify the percent recovery of the spiked compounds is within acceptable laboratory criteria included in each laboratory report;
- Duplicate Analysis Data: Calculate the relative percent difference (RPD) of target compounds where both the
  native and field duplicate sample concentrations are greater than five times the reporting limit to demonstrate
  acceptable precision and reproducibility of the laboratory and/or field procedures. Laboratory duplicate RPD
  values will be compared to laboratory criteria. Field duplicate RPD values will be compared to a criterion of
  30 percent for this project; and
- Overall Data Assessment: Examine the data package as a whole and compare it to (1) the COC to verify completeness, (2) the historical data to verify representativeness, and (3) the other Site data to verify comparability is being achieved.

Qualification of the data may result if the evaluation criteria are not met. Data qualification(s) will be presented in the sampling report.

#### 6.7.3 Data Processing/Management

R&W/GZA maintains a database to house information relevant to the POET system monitoring.

#### 6.8 REPORTING

R&W/GZA will call homeowners within approximately two weeks of receipt of the analytical results to report the results to individual property owners served by a POET system. Results are also provided via mail or email. R&W/GZA will provide data to the EGLE as required for their database, as outlined in Section 7.13 of the CD. EGLE will be provided periodic updates regarding progress and notifications of POET system changes.

#### 6.8.1 POET System Reporting

A detection of PFOS+PFOA in the POET effluent will be reviewed promptly. If the concentration is less than 10 ppt PFOS+PFOA (or any applicable criteria) and found on start-up, subsequent sampling will be completed. If an effluent sampling result is greater than 10 ppt PFOS+PFOA (or greater than any applicable criteria), the response will include changing out the lead and lag GAC vessels, and resampling. Following the receipt of resampling results, water chemistry and water usage data will be reviewed, the system performance will be evaluated, and adjustments made to the system as necessary.

The results of each monitoring event for each POET system will be communicated by R&W/GZA to the property owner served by a POET system. The reporting methods are listed in Section 6.8.



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If a mid-point sample exceeds 35 ppt for PFOS+PFOA, EGLE will be notified as soon as possible. If an effluent sample concentration is greater than 10 ppt, EGLE will be notified. These notifications will be made within 24 hours of receipt of the analytical data.

#### 6.8.2 Periodic Reporting

Per Section 7.15 of the CD, Wolverine will provide EGLE with quarterly progress reports which will include the information pertaining to filters as outlined in Section 7.15(e)I, ii, iii, iv, and v. Additionally, sampling data will be shared with EGLE as outlined in Section 7.13(b)(ii), on at least a monthly basis.

#### 7.0 CESSATION

Under the CD, the following cessation plan was established.

- Wolverine will stop providing POET system monitoring and/or carbon changeout (as specified above) when the individual residence is connected to municipal water. Wolverine will offer the POET to the homeowner if they wish to continue the O&M. In accordance with 7.5(g) of the CD, Wolverine will remove the POETs, as applicable. In the case of a POET system with known concentrations above 10 ppt PFOS+PFOA, the lead GAC vessel will be removed prior to the continued use of the POET system by the owner.
- At the locations with Type II water supplies (i.e. Armory and Convent), the POET systems will be maintained and monitored within their permit requirements until municipal water connections are provided.
- After the Effective Date of the CD, in filter areas (as established in the CD), if a parcel has not had influent/raw
  water PFOS+PFOA concentrations exceeding 10 ppt (or other applicable criteria for PFAS), Wolverine will offer
  to remove the POET system at Wolverine's expense, or the resident may choose to keep the POET system if
  they assume operation and maintenance.

Wolverine will continue notifying homeowners in writing of the changes to the POET system O&M regarding the offers to remove or retain POETs. Owners may indicate their choice to remove or retain the POET via either a provided form, email, or verbally. These will be tracked by R&W/GZA.



### TABLE 1 PFAS ANALYTICAL PARAMETERS AND REPORTING LIMITS

| PFAS by EPA Method 537 (rev. 1.1)                          | CAS        | Approximate Reporting Limit |
|--|------------|-----------------------------|
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)  | 2991-50-6  | 4                           |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | 2355-31-9  | 4                           |
| Perfluoro-1-butane sulfonic acid (PFBS)                    | 375-73-5   | 4                           |
| Perfluorohexane sulfonic acid (PFHxS)                      | 355-46-4   | 4                           |
| Perfluoro-n-decanoic acid (PFDA)                           | 335-76-2   | 4                           |
| Perfluoro-n-dodecanoic acid (PFDoA)                        | 307-55-1   | 4                           |
| Perfluoro-n-heptanoic acid (PFHpA)                         | 375-85-9   | 4                           |
| Perfluoro-n-hexanoic acid (PFHxA)                          | 307-24-4   | 4                           |
| Perfluoro-n-nonanoic acid (PFNA)                           | 375-95-1   | 4                           |
| Perfluoro-n-octanoic acid (PFOA)                           | 335-67-1   | 4                           |
| Perfluoro-n-tetradecanoic acid (PFTeDA)                    | 376-06-7   | 4                           |
| Perfluoro-n-tridecanoic acid (PFTrDA)                      | 72629-94-8 | 4                           |
| Perfluoro-n-undecanoic acid (PFUdA)                        | 2058-94-8  | 4                           |
| Perfluorooctane sulfonic acid (PFOS)                       | 1763-23-1  | 4                           |



**APPENDIX A – POINT-OF-USE FILTER MAINTENANCE MEMORANDUM** 



GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION MANAGEMENT

The Widdicomb Building 601 Fifth Street NW Suite 102 Grand Rapids, MI 49504 T: 616.956.6123 F: 616.288.3327 www.rosewestra.com



#### MEMORANDUM

To: Karen Vorce, EGLE

From: Loretta Powers, R&W/GZA

Date: May 15, 2018, Revised April 6, 2020 and September 16, 2020

File No.: 16.0062335.51/16.0062961.60

Re: Aguasana 5300+ Point-of-Use Filtration Maintenance (POET O&M Appendix)

This memorandum pertains to Aquasana 5300+ point-of-use (POU) filters installed in the North Kent Study Area (NKSA) at residences by Wolverine World Wide, Inc. (Wolverine). This memorandum was updated April 6, 2020 to address changes established in the Consent Decree No. 1:18-cv-00039-JTM-ESC (CD), effective February 19, 2020. The-changes made to the POU filter Operation and Maintenance (O&M) are established in Section 7.5 and Appendix L of the CD. The CD establishes both filter and municipal water areas within the NKSA. Refer to the CD for additional definition of these areas.

Aquasana 5300+ POU filters are an activated carbon-based filtration system with NSF International certification for the reduction of perfluoro-n-octanoic acid and perfluorooctane sulfonic acid (PFOA+PFOS) to below 70 parts per trillion (ppt) for influent concentrations up to 1,500 ppt. The POUs installed at locations with over 1,500—ppt influent PFOS+PFOA are installed after a point-of-entry treatment filter system. POU systems are not the stand-alone filtration for locations with influent concentrations above 1,500 ppt PFOS+PFOA.

The POU filter life is 800 gallons (approximately six months of typical use). There is a meter in the POU filter that alerts (via either auditory beep, flashing light, or mobile app) when it is time to replace the filter cartridges if the 800-gallon flow occurs before the six-month life expectancy.

R&W/GZA tracked POU filter installation dates. Prior to the effective date of the CD, approximately two weeks prior to the six-month mark, R&W/GZA contacted residents to provide the replacement cartridges. If a filter replacement was needed prior to the six-month schedule (i.e., usage tracking alerts the residents), the residents were instructed to contact R&W/GZA or Wolverine and replacement cartridges were dropped off.

As of the effective date of the CD, the following POU protocol will be implemented and followed:

 In filter areas at residences where influent concentrations are above 10 ppt for PFOS+PFOA (unless and until new applicable criteria for PFAS compounds become effective) as well as in municipal water areas, Wolverine will continue to provide replacement cartridges for the POU filters, as specified by manufacturer. Two sets of replacement cartridges will be provided each year to each residence. Wolverine will stop providing POU replacement cartridges when an individual residence is connected to municipal water. Additionally, if connected to municipal water,







Wolverine will offer to remove the POU filter at Wolverine's expense, or the resident may choose to keep it if they assume O&M.

- In filter areas, if a parcel has not had PFOS+PFOA concentrations exceeding 10 ppt, Wolverine will offer to remove the POU filter at Wolverine's expense, or the resident may choose to keep it if they assume O&M.
- In filter areas, if a parcel is resampled and the PFOS+PFOA is greater than 10 ppt or other applicable PFAS
  criterion is identified as defined in the CD, that resident will be offered a POU filter which Wolverine will
  maintain as stated above.

According to the EGLE's December 5, 2017 Fact Sheet: PFAS In-Home Filtration Systems, the POU granular activated carbon filters are general household refuse and can be disposed of as such in the resident's refuse to be removed and disposed in a licensed landfill. If a resident does not have refuse service, they may request removal of the spent filters.

Consistent with procedures used by EGLE/MDHHS/County health departments in areas of Michigan where they have provided POU filters, Wolverine will not be conducting performance monitoring of the POUs. Based on the NSF certification, the manufacturer recommended maintenance, and understood operating protocols at other locations in Michigan where these POU filters are being used. This POU maintenance program is sufficient for the Wolverine-installed POU filter systems.

R&W/GZA will continue to provide POU filter installation addresses and dates to EGLE through GIS data updates to AECOM. R&W/GZA will also continue to track replacement cartridge distribution and provide that information to EGLE via the GIS updates as well. This will be completed monthly as outlined in Section 7.13 of the CD.

 $\label{loss} $$ \sqrt{62961.xx - WWW RAP-WP} 62961.60 - Filter Plan and O&M/O&M Update\\ DEQ POU Maintenance Memo - F - 09162020.docx Applicable (Control of the Control of th$ 



**APPENDIX B - SAMPLE RESIDENT INFORMATION CARD** 

#### POET FILTER INFORMATION CARD

#### **Helpful Websites**

- Wolverine groundwater project website <a href="http://www.WeAreWolverine.com/">http://www.WeAreWolverine.com/</a>
- KCHD website <a href="https://www.accesskent.com/Health/PFAS/belmont.htm">https://www.accesskent.com/Health/PFAS/belmont.htm</a>
- MDHHS <a href="https://www.michigan.gov/mdhhs/">https://www.michigan.gov/mdhhs/</a>
- Plainfield Charter Township <a href="https://www.plainfieldmi.org">https://www.plainfieldmi.org</a>
- Algoma Township https://www.algomatwp.org
- MPART Michigan PFAS Action Response Team https://www.michigan.gov/pfasresponse

#### **Contact Numbers**

Wolverine - 616-866-5627 - HouseStreet@wwwinc.com

GZA GeoEnvironmental, Inc. – 616-956-6123 - House.Street@gza.com

Kaat's Culligan - 616-791-7150

Greenville Culligan – 616-754-3858

Bayes Water Treatment - 616-887-9378

Gordon Water Systems - 616-776-3800

If the POET filter system remains dormant for more than three weeks, water should be flushed for a minimum of 25 minutes or 200 gallons or more prior to use.



### APPENDIX C - CULLIGAN OWNER'S MANUAL (INCLUDED FOR REFERENCE/INFORMATION ONLY)



# Installation and Operation Manual

Exchange Carbon Filter System



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| UV    | Sterilizer # S8Q-PA-C (#D1022214)    | 8 |



#### **Overview**

This Portable Exchange Carbon Filtration System is designed to be installed in residential applications for the reduction of traces of organic chemical contamination from well water supplies. The system provides maximum flow rate of up to 8 GPM and includes a cartridge type sediment pre-filter (Dual Gradient 50-5 micron), a dual Carbon Filter system containing a total of 4 Ft³ of a Filtrasorb F600AW Bituminous Coal Acid Washed Granular Activated Carbon (Culligan Cullar F600AW), cartridge type sediment post-filter (Dual Gradient 50-5 micron) and a final UV Light Water Sterilizer rated at 8 GPM flow rate. The system incorporates test ports in the inlet, in between the two carbon vessels and at the outlet of the system for monitoring the system efficiency. Also, a water totalizing meter is included in the outlet of the system to record water usage and facilitate service monitoring.

#### System Design – Typical Operation

System is installed on the main water line of the residence after the well pressure tank as indicated in the system flow diagram (Fig. 1) below. The first sediment filter is used for the removal of sediments and suspended matter. Then water flows through two (2) 10"x54" vessels in series each containing 2.0 Ft³ of the Cullar F600AW (#SPC10776) Granular Activated Carbon media for the adsorption of traces of organic contaminants. The dual filter approach provides for a continuous back contingency. Following the carbon filter vessels a secondary cartridge type sediment filter is utilized to provide clean water to the residence. Finally, a UV light water sterilization unit is providing microbiological control prior to distribution of the water to the household.

The system operation is designed to be simple and maintenance free. Periodic exchange of the carbon filters is performed by your local Culligan dealer. Sampling ports are included during the installation to facilitate testing the system efficacy and determine when the carbon filter(s) need to be replaced. The spent carbon should be disposed according to applicable local and federal requirements as it may contain the contaminants being removed in the process and has to be treated accordingly.

Refer to this manual for further details and instructions for the system components.



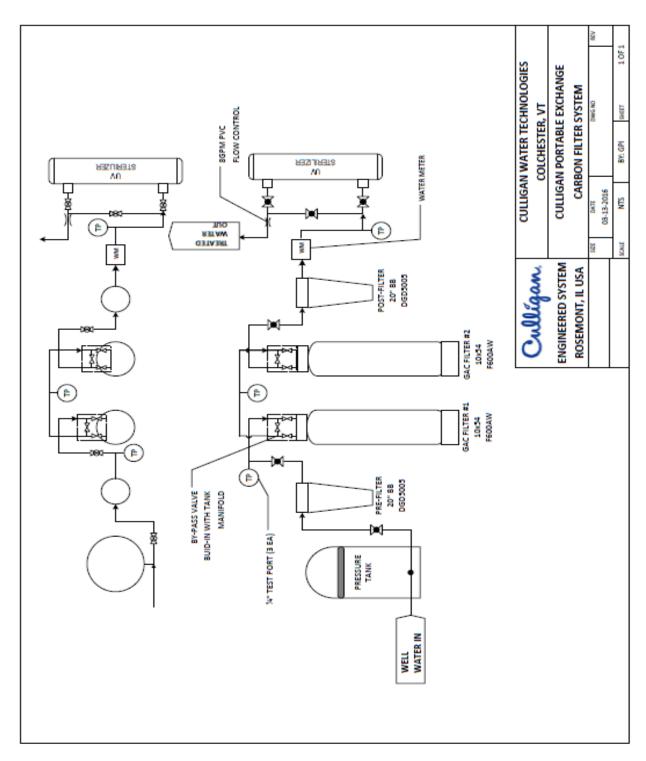


Figure 1: System Flow Diagram



## PORTABLE EXCHANGE CARBON FILTERS

#### FILLING AND START UP PROCEEDURES

The following procedures should be followed every time a new Portable Exchange carbon filter is installed or exchange for an application. Every filter needs to be prepared according to the following instructions before it is placed in service.

#### I. FILLING PROCEEDURES:

- 1. Insert the Outlet distributor manifold in the tank and make sure it is properly centered
- 2. Cover the opening of the manifold with a clean rag.
- 3. Place a wide-mouth funnel in the tank opening.
- 4. Open one (1) 55 lbs. bag of Filtrasorb F600AW carbon. Slowly pour the carbon into the tank via the funnel. Fill the carbon within 2" 3" from the top. Each tank depending on the size used should take 2 Ft<sup>3</sup> of carbon.
- 5. Fill the tank with water and allow the media to soak for 24-48 hours. The water level in the tank will decrease as the media soaks up water. Add water to the tank to keep the media submerged so all the media gets saturated.
- 6. Thread the tank closure with the inlet strainer into the tank; be careful not to miss thread.

#### II. RECOMMENDED START UP PROCEDURE:

- 1. It is advisable that every new filter is backwashed for 10 15 minutes at a flow rate of 5 8 GPM.
- 2. Easiest way to backwash the PE Carbon Tanks is utilizing a backwash funnel assembly, usually installed in a Culligan dealership. Backwash the media in the funnel for 10-15 minutes to make sure water is clean and all carbon fines are washed out.
- 3. Drop media back in the tank, drain excess water. Unit is ready to set in service.
- 4. If a backwash funnel is not available reverse the flow of the water on the tank manifold. Flow backwards to drain for 10-15 minutes at a flow rate no more than 5 GPM. If flow starts diminishing is because media is lifted around the top manifold. After 10-15 minutes make sure that the water to drain comes out clear. Reverse the flow and run to drain for another 5 min at 5 GPM to settle the bed.
- 5. You are ready to place the unit to service.
- 6. When installing the unit make sure that the Inlet & Outlet are hooked up correctly.

For servicing of the system contact the Culligan Dealer in your area.



# Portable Exchange Carbon Filtration Specifications and Operating Data

## Cullar Portable Exchange Carbon Unit - 10x54 FRP Tank, 2.0 Ft3

#### The 10"x54"-CARB FRP 1" will Provide:

| Superior Quality Flow, gpm | : 3.1 @ 2 psi loss |
|----------------------------|--------------------|
| High Quality Flow, gpm     | : 4.7 @ 4 psi loss |
| Utility Quality Flow, gpm  | : 6.3 @ 6 psi loss |

Carbon Volume,  $ft^3$  : 2.0

## Miscellaneous Design Data:

| Tank Size, in.             | : 10x54  |
|----------------------------|----------|
| Tank Area, ft <sup>2</sup> | : 0.54   |
| Operating Pressure, psi    | : 0-150  |
| Oper. Temperature, °F      | : 33-120 |

## The 10"-CARB FRP 1" System Requirements:

| Voltage                | : None* |
|------------------------|---------|
| Pipe Conn, in NPT      |         |
| Inlet                  | : 1.0   |
| Outlet                 | : 1.0   |
| Weight per tank, lbs   |         |
| Shipping               | : 132.0 |
| Operating              | : 195.0 |
| Overall Dimensions, in |         |
| Width                  | : 11.0  |
| Depth                  | : 12.0  |
| Height                 | : 56.0  |

<sup>\*</sup> Note: Voltage may be required for water quality instruments.

#### Cullar - Filtrasorb F600AW Activated Carbon Media:

The Filtrasorb F600AW media is a granular activated carbon for the removal of dissolved organic compounds from water. Such contaminants include taste and odor compounds, organic color, Total organic Carbon (TOC), and industrial organic compounds such as TCE, PCE and others. The F600AW is made of selected grades of bituminous coal and it is acid wash to provide cleanliness. See attached factory data sheet for more details.



# FILTRASORB® 600

Granular Activated Carbon

#### **Applications**



Groundwater



Bottle & Brewing



Water Processing



Environmental Water



Food & Beverage



Ultra Pure



Remediation Water Treatment

With its enhanced high energy pore structure, FILTRASORB 600 is ideally suited for trace removal applications and offers a significant performance advantage over traditional activated carbon products used in these types of applications.

Specific applications include:

- Removal of MTBE
- Removal of DBCP
- Removal of THMs
- Removal of pesticides and herbicides
- Removal of other organics at concentrations < 1 ppm
- Potable water treatment
- Groundwater treatment
- Ultrapure water treatment

#### Description

FILTRASORB 600 is a granular activated carbon for the removal of dissolved organic compounds from water and wastewater as well as industrial and food processing streams. These contaminants include taste and odor compounds, organic color, total organic carbon (TOC), and industrial organic compounds such as TCE and PCE.

This activated carbon is made from select grades of bituminous coal through a process known as reagglomeration to produce a high activity, durable, granular product capable of withstanding the abrasion associated with repeated backwashing, hydraulic transport, and reactivation for reuse. Activation is carefully controlled to produce a significant volume of both low and high energy pores for effective adsorption of a broad range of high and low molecular weight organic contaminants.

FILTRASORB 600 is formulated to comply with all the applicable provisions of the AWWA Standard for Granular Activated Carbon (B604) and Food Chemicals Codex. This product may also be certified to the requirements of ANSI/NSF Standard 61 for use in municipal water treatment facilities. Only products bearing the NSF Mark are certified to the NSF/ANSI 61 - Drinking Water System Components - Health Effects standard. Certified Products will bear the NSF Mark on packaging or documentation shipped with the product.

#### Features / Benefits

- Produced from a pulverized blend of high quality bituminous coals resulting in a consistent, high quality product.
- Carbon granules are uniformly activated through the whole granule, not just the outside, resulting in excellent adsorption properties and constant adsorption kinetics.
- The reagglomerated structure ensures proper wetting while also eliminating floating material.
- High mechanical strength relative to other raw materials, thereby reducing the generation of fines during backwashing and hydraulic transport.
- Carbon bed segregation is retained after repeated backwashing, ensuring the adsorption profile remains unchanged and therefore maximizing the bed life.
- Reagglomerated with a high abrasion resistance, which provides excellent reactivation performance.
- High density carbon resulting in a greater adsorption capacity per unit volume.

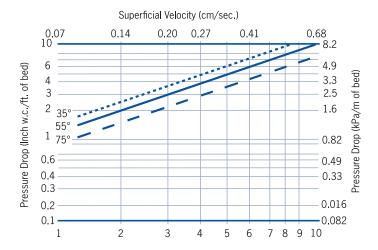
| Specifications <sup>1</sup>            | FILTRASORB 600 |
|--|----------------|
| lodine Number, mg/g                    | 850 (min)      |
| Moisture by Weight                     | 2% (max)       |
| Abrasion Number                        | 80 (min)       |
| Trace Capacity Number, mg/g            | 16 (min)       |
| Screen Size by Weight, US Sieve Series |                |
| On 12 mesh                             | 5% (max)       |
| Through 40 mesh                        | 4% (max)       |
| ¹Calgon Carbon test method             | ·              |

| Typical Properties*       | FILTRASORB 600 |  |  |
|---------------------------|----------------|--|--|
| Apparent Density (tamped) | 0.62 g/cc      |  |  |
| Water Extractables        | <1%            |  |  |
| Non-Wettable              | <1%            |  |  |

<sup>\*</sup>For general information only, not to be used as purchase specifications.

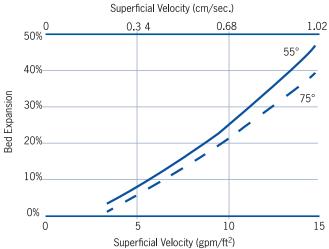
## **Typical Pressure Drop**

Based on a backwashed and segregated bed



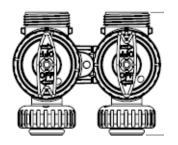
## **Typical Bed Expansion During Backwash**

Based on a backwashed and segregated bed





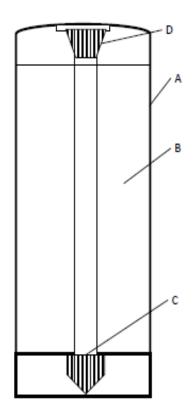
# Carbon Filter Component Parts:



By-Pass Valve WS1 (#SPC10762)



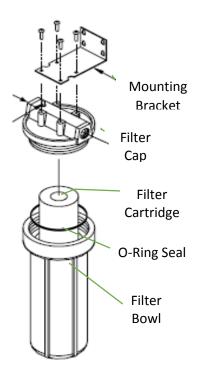
In & Out Tank Head (#SPC10761)



- A. Filter Tank, FRP, 10"x54" (#SPC10770)
- B. Carbon Media, 2 Ft<sup>3</sup>, Cullar F600AW (#SPC10776)
- C. Distributor Manifold (#SPC10773)
- D. Top Distributor Basket (#SPC10765)



# Filter Cartridge Replacement Procedures



The pre and post filter cartridges need to be replaced when a significant pressure drop across the filter increases, or in a regular intervals as determine by local water conditions.

- 1. Turn off water supply to filter. Depress red pressurerelief button to relief the pressure from the filter.
- 2. Using the filter wrench provided (#MS010522), unscrew the filter bowl.
- 3. Remove and discard old filter cartridge.
- 4. Clean the filter bowl with a damp cloth and rinse thoroughly.
- 5. Remove the wrapper from the new cartridge (#MS004512). Install the cartridge in the bowl, making sure it seals in the bottom of the bowl.
- 6. Check the O-ring seal (#MS404498) for dryness and cuts. Replace the seal if necessary and use silicone lube as needed.

CAUTION! Do not use petroleum-based lubricants, which destroy the synthetic rubber seal.

- 7. Screw the filter bowl onto the filter cap and hand tighten. DO NOT OVER-TIGHTEN.
- 8. Slowly turn on the water supply to allow filter to fill with water and then press the red pressure-relief button on top of the filter cap to release trapped air.



# UV Sterilizer # S8Q-PA-C (#D1022214)



# Models:

S2Q-PA, S5Q-PA, S8Q-PA, S2Q-P/12VDC, S5Q-P/12VDC

> NSF Standard 55 Class B Validated Models: SV5Q-PA, SV8Q-PA

Powered by Sterilight<sup>\*</sup>

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3-mail: info@viqua.com

www.viqua.com











# **Section 1** Safety Information

These are the original instructions. Please read this entire manual before operating this equipment. Pay attention to all danger, warning, and caution statements in this manual. Failure to do so could result in serious personal injury or damage to the equipment.

Make sure that the protection provided by this equipment is not impaired. DO NOT use or install this equipment in any manner other than that specified in the installation manual.

### 1.1 Potential Hazards:

Read all labels and tags attached to the system. Personal injury or damage to the system could occur if not observed.

| <u> </u> | Waste electrical and electronic equipment (WEEE). This symbol indicates that you should not discard wasted electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center. |     | This symbol indicates not to store any combustible or flammable material close to the system.   |
|----------|---|-----|---|
| Hg       | This symbol indicates there is Mercury present.   | (A) | This symbol indicates that the contents of the transport package are fragile and the package should be handled with care.   |
|          | This is the safety alert symbol. Obey all safety messages that follow this symbol to avoid potential injury. When on the equipment, refer to the Operational and Maintenance manual for additional safety information.                                |     | This symbol indicates safety glasses with side protection is required for protection against UV exposure.   |
| A        | This symbol indicates a risk of electrical shock and/or electrocution exists.   |     | This symbol indicates gloves must be worn.  |
|          | This symbol indicates the marked equipment may contain a component that can eject forcibly. Obey all procedures to safely depressurize.   |     | This symbol indicates safety boots must be worn.  |
|          | This symbol indicates the system is under pressure.   |     | This symbol indicates the operator must read all available documentation to perform required procedures.  |
| <u>₩</u> | This symbol indicates there is a potential UV hazard. Proper protection must be worn.   |     | This symbol indicates the plumber must use copper piping.   |
|          | This symbol indicates the marked item could be hot and should not be touched without care.  | •   | This symbol indicates that the system should only be connected to a properly grounded, grounding-type controller receptacle that is protected by a Ground Fault Circuit Interrupter (GFCI). |
|          | This symbol indicates there is a potential for VERY hot water when flow is started.   |     |   |
|          |   |     |   |

Warning: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

# 1.2 Safety Precautions:

# **ADANGER**

Failure to follow these instructions will result in serious injury or death.

- **Electric Shock:** To avoid possible electric shock, special care should be taken since water is present near the electrical equipment. Unless a situation is encountered that is explicitly addressed by the provided maintenance and troubleshooting sections, DO NOT attempt repairs yourself, refer to an authorized service facility.
- **GROUNDING:** This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electrical shock. This system is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. Improper connection of the equipment-grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. DO NOT modify the plug provided with this system if it does not fit in the outlet, have a proper outlet installed by a qualified electrician. DO NOT use any type of adapter with this system.
- GROUND FAULT CIRCUIT INTERRUPTER PROTECTION: To comply with the National Electrical Code (NFPA 70) and to provide additional protection from the risk of electric shock, this system should only be connected to a properly grounded, grounding-type controller receptacle that is protected by a Ground Fault Circuit Interrupter (GFCI) or to a residual current device (RCD) having a rated residual operating current not exceeding 30 mA. Inspect operation of GFCI as per manufacturer's suggested maintenance schedule.
- DO NOT operate the disinfection system if it has a damaged cord or plug, if it is malfunctioning or if it has been dropped or damaged in any manner.
- DO NOT use this disinfection system for other than intended use (potable water applications). The use of attachments not recommended or sold by the manufacturer / distributor may cause an unsafe condition.
- DO NOT install this disinfection system where it will be exposed to the weather or to temperatures below freezing.
- DO NOT store this disinfection system where it will be exposed to the weather.
- DO NOT store this disinfection system where it will be exposed to temperatures below freezing unless all water has been drained from it and the water supply has been disconnected.





# **AWARNING**



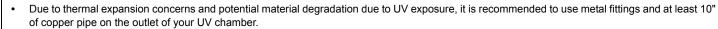
- During extended periods of no water flow, the water in your chamber can become very hot (Approx. 60 °C) and potentially lead to scalding. It is recommended to run your water until this hot water has been purged from your chamber. Do not allow water to contact your skin during this time. To eliminate this condition, a temperature management valve can be installed at the outlet of your UV system.
- This system contains a UV Lamp. Do not operate the UV Lamp when it is removed from the chamber. Unintended use or damage of the system may result in the exposure of dangerous UV radiation. UV radiation may, even in little doses, cause harm to the eyes and skin.
- Changes or modifications made to this system without the consent of the manufacturer could render the system unsafe for operation and may void
  the manufacturer's warranty.

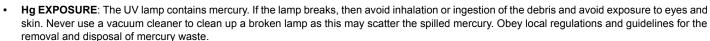
# **ACAUTION**

Failure to follow these instructions could result in minor or moderate injury.



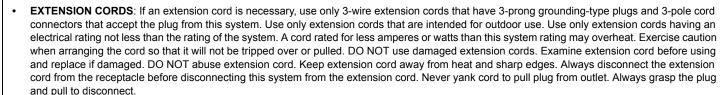
• Carefully examine the disinfection system after installation. It should not be plugged in if there is water on parts not intended to be wet such as, the controller or lamp connector.





# NOTICE

- The UV lamp inside the disinfection system is rated at an effective life of approximately 9000 hours. To ensure continuous protection, replace the UV lamp annually.
- The UV system is not to be used or played with by children. Persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, are also not to handle the UV system unless they have been given supervision or instruction.
- This system is intended to be permanently connected to the water lines.
- This system is not intended to be used in or above water or outdoors or used in swimming pools when persons are in the pool.





- SYSTEM PROTECTION: To protect your Controller, a UL1449 certified (or equivalent) transient voltage surge suppressor is strongly recommended.
- The UV lamp in this system conforms to the applicable provisions of the Code of Federal Regulations (CFR) requirements including, Title 21, Chapter 1, Subchapter J, Radiological Health.
- · Read and understand the Owner's Manual before operating and performing any maintenance on this equipment.

# 1.3 Water Chemistry

Water quality is extremely important for the optimum performance of your UV system. The following levels are recommended for installation:

| Water Quality and Minerals | Level  |
|----------------------------|--|
| Iron                       | < 0.3 ppm (0.3 mg/L)   |
| Hardness*                  | < 7 gpg (120 mg/L)   |
| Turbidity                  | < 1 NTU  |
| Manganese                  | < 0.05 ppm (0.05 mg/L)   |
| Tannins                    | < 0.1 ppm (0.1 mg/L)   |
| UV Transmittance           | > 75% (call factory for recommendations on applications where UVT < 75%) |

<sup>\*</sup> Where total hardness is less than 7 gpg, the UV unit should operate efficiently provided the quartz sleeve is cleaned periodically. If total hardness exceeds 7 gpg, the water should be softened. If your water chemistry contains levels in excess of those mentioned above, proper pre-treatment is recommended to correct these water problems prior to the installation of your UV disinfection system. These water quality parameters can be tested by your local dealer, or by most private analytical laboratories. *Proper pre-treatment is essential for the UV disinfection system to operate as intended.* 





# **Section 2** General Information

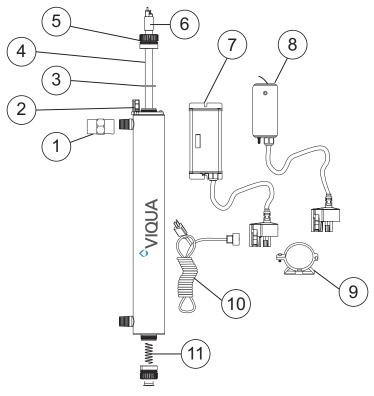


Figure 1 System Components

| Item | Description  | Part Number                               | UV Systems   |  |
|------|--|---|--|--|
|      | Flow restrictor (Only for certified  | ctor (Only for certified 440263-R SV5Q-PA |  |  |
| 1    | models)  | 440264-R                                  | SV8Q-PA  |  |
| 2    | Lamp connector base  | 270276-R                                  | Used on all systems  |  |
| 3    | O-ring   | 410867                                    | Used on all systems  |  |
|      |  | QS-001                                    | S1Q-PA   |  |
| 4    | Open-ended, 214 fused quartz sleeves                                       | QS-330                                    | S2Q-PA   |  |
| 4    | with fire polished ends  | QS-463                                    | S5Q-PA, SV5Q-PA  |  |
|      |  | QS-810                                    | S8Q-PA, SV8Q-PA  |  |
| 5    | Retaining nut  | RN-001                                    | Used on all systems  |  |
|      | Hard glass, coated Sterilumze®-EX UV lamps for long, consistent life (9000 | S330RL                                    | S2Q-PA   |  |
| 6    |  | S463RL                                    | S5Q-PA, SV5Q-PA  |  |
|      | hours)   | S810RL                                    | S8Q-PA, SV8Q-PA  |  |
| 7    | Controller (for 100-240V models only)                                      | BA-ICE-S                                  | S5Q-PA, S8Q-PA, SV5Q-PA, SV8Q-PA                           |  |
| 8    | Controller (for 12VDC models only)   | BA-RO/P/12                                | S2Q-P/12VDC, S5Q-P/12VDC                                   |  |
| 9    | 2.5" Mounting brackets   | 410958-R                                  | Used on all systems  |  |
|      | IEC replacement power cords for VIQUA ICE Controller (sold separately)     | 260010                                    | NORTH AMERICAN (NEMA 5-15P), 3-PRONG GROUNDED              |  |
|      |  | 602637                                    | CONTINENTAL EUROPEAN (CEE 7/7) 2-PIN WITH GROUND, "SCHUKO" |  |
| 10   |  | 260012                                    | UK VERSION (BS 1363) 3-PRONG GROUNDED (5 AMP FUSE)         |  |
|      |  | 260013                                    | AUSTRALIAN VERSION (AS 3112) 3-PRONG GROUNDED              |  |
|      |  | 260019                                    | NO CONNECTOR, 3-WIRE, BARE LEADS                           |  |
| 11   | Spring   | SP008                                     | Used on all systems  |  |



# **Section 3** Installation

# 3.1 UV Disinfection System

# **ACAUTION**



Electronic controller must be connected to a Ground Fault Protected Circuit (GFCI) receptacle. Ensure green ground wire ring terminal is securely fastened to ground stud on UV chamber.

The disinfection system is designed to be mounted either horizontally or vertically at the point-of-use or point-of-entry depending on the specific flow rate of the unit.

**Note:** The ideal installation is vertical with the lamp connector on top. This is to prevent water damage from occurring on the lamp pins and lamp connector.

- The controller should be mounted either above or beside the UV chamber. Always mount controller horizontally to prevent moisture from running down cordage and causing a potential fire hazard. Drip loops in all cordage connected to controller is highly recommended. Refer to Figure 5.
- The complete water system, including any pressure or hot water tanks, must be sterilized before start up by flushing
  with chlorine (household bleach) to destroy any residual contamination. Refer to Section 3.2.
- The disinfection system is intended for indoor use only. DO NOT install disinfection system where it may be exposed to the weather.
- Install the disinfection system on cold water line only, before any branched lines.
- A 5 micron sediment filter must precede the disinfection system. Ideally, the disinfection system should be the last treatment the water receives before it reaches the faucet.

#### Procedure:

1. Figure 2 shows the installation of a typical disinfection system and the related components that may be used for the installation. The use of a by-pass assembly is recommended in case the system requires "off-line" maintenance. In this case, note the system requires supplementary disinfection for the distribution system if any water is used during by-pass condition. In addition, during by-pass, the water will NOT be disinfected and a "DO NOT CONSUME THE WATER" tag should be physically installed on the by-pass assembly until such time as the system is sanitized and returned to service. For more information, refer to Section 3.2. If the water is to be consumed while the system is off-line, the water must be boiled for two minutes prior to consumption.

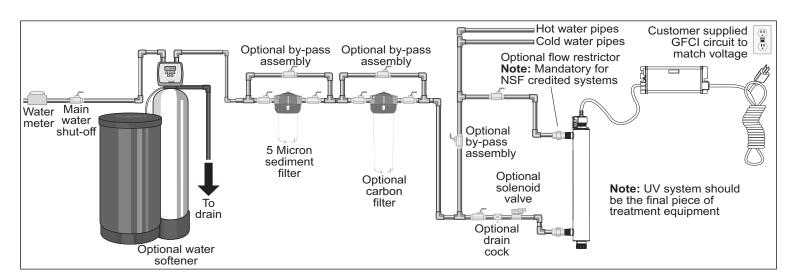


Figure 2 Disinfection System



2. Select a suitable location for the disinfection system and its related components. As it is recommended to install a GFCI, make sure that this is taken into consideration prior to any installation. The system can either be installed vertically (inlet port at the bottom) as shown in Figure 3 A, or horizontally as shown in Figure 3 B. However, the vertical installation is the most preferred method. When selecting a mounting location, leave enough space to allow the removal of the UV lamp and/or quartz sleeve (typically leave a space equal to the size of the UV chamber itself).

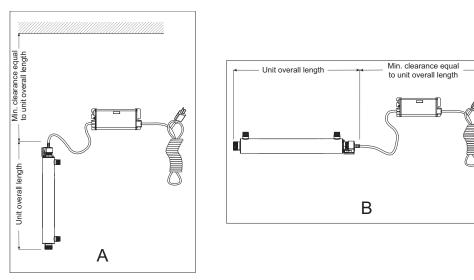


Figure 3 Disinfection Installation - Vertical and Horizontal

3. Mount the system to the wall using the supplied clamps. Various connection methods can be used to connect the water source to the system, however union type connectors are recommended. The use of a flow restrictor device will help to maintain the manufacturers rated flow. The flow restrictor should be installed on the outlet port and is designed to be installed in one direction only. Ensure that the flow of the water matches the flow direction as indicated on the flow restrictor. Refer to Figure 4.

Note: DO NOT solder connections while attached to the system as this could damage the O-ring seals.

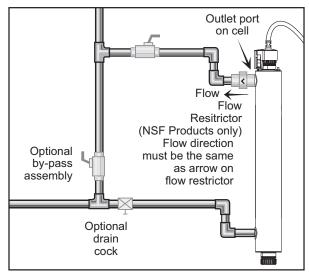


Figure 4 Flow Restrictor

4. Mount the VIQUA ICE controller horizontally to the wall, near the UV chamber. Ideally place the controller above the chamber and away from any water connection point, to prevent any water from potentially leaking onto the controller by means of a leak at a connection point or a "sweating" system. Make sure you allow for a "drip-loop" as shown in Figure 5 on the UV lamp, UV sensor, and power cord, again, to prevent any water from potentially entering the controller.



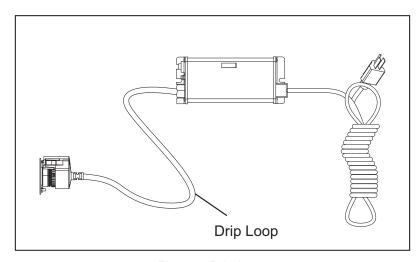


Figure 5 Drip Loop

- 5. Install the UV lamp. Refer to Section 4.1.
- **6.** When all plumbing connections are complete, slowly turn on the water supply and check for leaks. The most likely cause of leaks is from the O-ring seal. In case of a leak, shut water off, drain cell, remove the retaining nut, wipe the O-ring and threads. Clean and re-install.
- 7. Once it is determined that there are no leaks, plug the system into the ground fault interrupter and check controller to ensure the system is operating properly. The controller should illuminate without any alarms.

Note: DO NOT look directly at the glowing UV lamp.

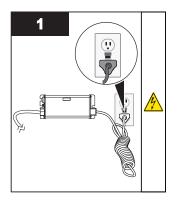
8. Allow the water to run for a few minutes to clear any air or dust that may be in the UV chamber.

**Note:** When there is no flow, the water in the cell will become warm, as the UV lamp is always on. To remedy this, run a cold water tap anywhere in the house for a minute to flush out the warm water.

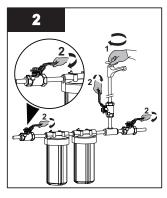


## 3.2 Disinfection Procedure

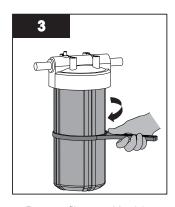
UV disinfection is a physical disinfection process and does not add any potentially harmful chemicals to the water. As UV does not provide a disinfection residual, it is imperative that the entire distribution system located after the UV be chemically disinfected to ensure that the plumbing system is free from any bacteriological contaminants. The disinfection process must be performed immediately after the UV unit is installed and repeated thereafter whenever the UV is shut down for service, without power, or inoperative for any reason. The procedure for sanitizing the plumbing system is readily accomplished as follows:



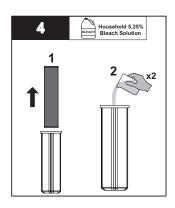
 Ensure the controller is plugged in for entire disinfection process.



- · Shut off the water supply.
- · Close each faucet.

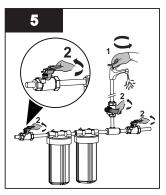


Remove filter cartridge(s).



 Pour 2 cups of household bleach solution into the filter housing(s).

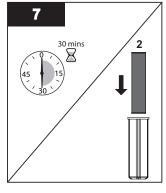
**Note:** DO NOT use Hydrogen Peroxide.



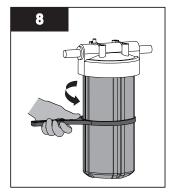
- · Re-install the housings.
- · Turn on the cold water supply.
- Open each faucet and all water openings until you smell the bleach and then close the faucets.



- Turn on the hot water supply.
- Open each faucet and all water openings until you smell the bleach and then close the faucets.



- DO NOT use water for 30 minutes.
- Flush the system until no chlorine smell is detectable and reinstall the filters.



· Reinstall filter housing(s).

- **Notes:** 1) The addition of chlorine (bleach) to a hot water tank that has in the past been fed with untreated raw water with high levels of other contaminants (iron, manganese, hydrogen sulphide, organics, etc.) will result in oxidation of these contaminants and may require repeated flushing of the hot water tank. This contingency must be dealt with independently under the start-up procedure for any other conditioners that may form a part of the pretreatment for the UV unit.
  - 2) The above disinfection procedure will result in a massive chlorine residual far in excess of the 0.5 to 1.0 mg/L typically present in municipally chlorinated water and of a magnitude consistent with the minimum 50 mg/L chlorine solution recommended for the disinfection of distribution systems known to be contaminated. DO NOT consume water until complete system has been flushed.



# **Section 4** Maintenance

# **AWARNING**



- Always disconnect power before performing any work on the disinfection system.
- · Always shut-off water flow and release water pressure before servicing.
- · Regularly inspect your disinfection system to ensure that the power indicators are on and no alarms are present.



- Replace the UV lamp annually (or biennially if seasonal home use) to ensure maximum disinfection.
- · Always drain the chamber when closing a seasonal home or leaving the unit in an area subject to freezing temperatures.

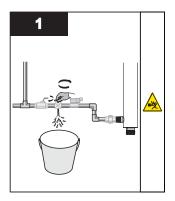
# 4.1 Replacing UV Lamp

# NOTICE

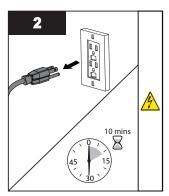
- Reset UV lamp life timer after UV lamp replacement. Refer to Section 5.1.3. Refer to www.lamprecycle.org for UV lamp disposal.
- · DO NOT use water during replacement of UV lamp.

UV lamp replacement is a quick and simple procedure requiring no special tools. The UV lamp must be replaced after 9000 hours of continuous operation (approximately one year) in order to ensure adequate disinfection.

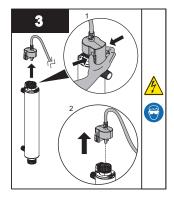
#### Procedure:



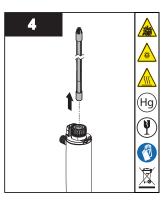
 Shut off the water line to chamber and release system pressure before servicing.



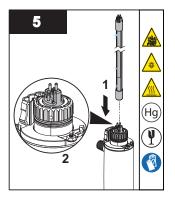
 Disconnect main power source and allow the unit to cool for 10 minutes.



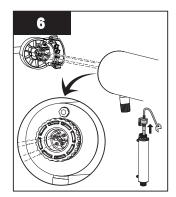
 Remove the lamp connector by squeezing the plastic locking tabs on the side of the connector.



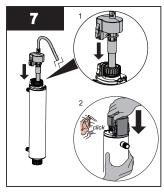
- Remove the lamp in upward direction from the chamber and lamp connector base.
- Always hold the lamp at the ceramic ends.



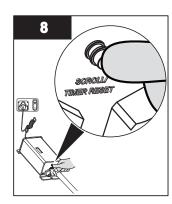
Insert the new lamp fully into the chamber leaving about two inches of the lamp protruding from the chamber.



 Attach the connector to the lamp and note that the connector will only allow correct installation in one position.



- Push the lamp connector against lamp connector base together until an audible click is heard.
- Re-pressurize the system to check for leaks.



- A 5 second delay will occur until you hear an audible tone and LED display will read once again 365.



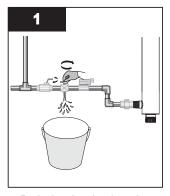
# 4.2 Cleaning and Replacing Quartz Sleeve

**Note:** Minerals in the water slowly form a coating on the quartz sleeve. This coating must be removed because it reduces the amount of UV light reaching the water, thereby reducing disinfection performance. If the sleeve can not be cleaned, it must be replaced.

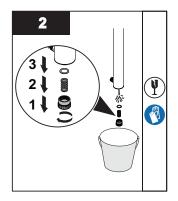
#### Prerequisites:

- Shut off water supply and drain all lines.
- Remove the UV lamp. Refer to Section 4.1.

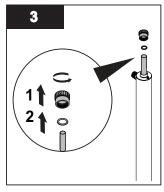
#### Procedure:



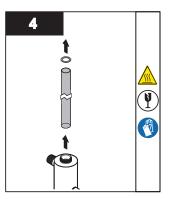
 Drain the chamber by using the drain port.



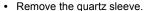
 Remove the bottom retaining nut, floating spring, and Oring.



 Remove the top retaining nut and O-ring.



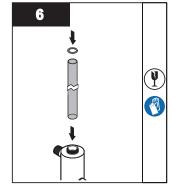
• Carefully, remove O-ring adhering to the quartz sleeve.



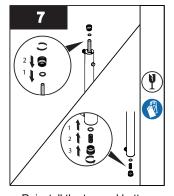


 Clean the quartz sleeve with a cloth soaked in CLR, vinegar or some other mild acid and then rinse with water.

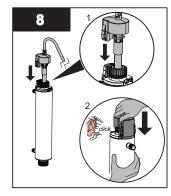
**Note:** If sleeve cannot be cleaned completely or it is scratched or cracked, then replace the sleeve.



- Reinstall the quartz sleeve in the chamber allowing the sleeve to protrude an equal distance at both ends of the chamber.
- Slide supplied O-rings onto each end of the quartz sleeve.



- Reinstall the top and bottom retaining nuts, floating spring, and O-rings respectively.
- When service is complete, assemble the prerequisites in the reverse order of disassembly.



- Push the lamp connector against lamp connector base together until an audible click is heard.
- Plug in controller and verify the POWER-ON LED display.
- Re-pressurize the system to check for leaks.

Note: After replacing the UV lamp or quartz sleeve perform the disinfection procedure, refer to Section 3.2.



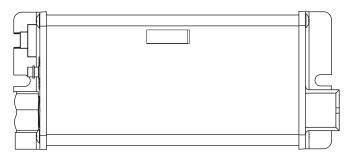
# Section 5 Operation

# **AWARNING**



The advanced warning system has been installed to provide the optimum protection against microbiological contamination in water. DO NOT disregard the warning signals. The best way to ensure optimum UV performance is to have the water microbiologically tested by a recognized testing agency on a regular basis.

# 5.1 Basic Systems Incorporating BA-ICE-S Controller



# 5.1.1 UV lamp Life Remaining (days)

The controller tracks the number of days of operation of the UV lamp and the controller. The default screen will display the total UV lamp life remaining (in days). The controller will count down the number of days remaining until the UV lamp requires changing (365 days to 1 day). At "0" days, the controller will display 3 and sound an intermittent audible chirp (1 second on, 5 seconds off), indicating the need to change the UV lamp.

# 5.1.2 Understanding your "A3" Code

DEFERRAL - Once the "A3" or end of UV lamp life message is shown on the LED display, the audible alarm can be deferred up to 4 separate times. The delay is designed to allow you time to address the alarm while you obtain a new UV lamp. This can be done by simply depressing the timer reset button for 5 seconds, which is located on the left side of the controller. Each time the timer reset button is pressed the controller alarm is deferred seven days. Once the final 7 day deferral has been reached the alarm can only be silenced by changing the UV lamp and manually resetting the controller timer, refer to Section 4.1.

# 5.1.3 Resetting UV lamp Life

Refer to Section 4.1.

**Note:** Even though the alarm on the system can be deferred for a period of time, it is important to address each and every alarm condition as they are indicating that there is a potential problem with the system and should be remedied.

# 5.1.4 Total Days of Operation

The controller also displays the total running time of the controller. To obtain this reading, press the push-button once. The total running time of the controller will be numerically displayed in days. This information will remain displayed for ten seconds and will then revert back to the UV lamp life remaining default screen. It should be noted that this value cannot be reset.

# 5.1.5 UV lamp Failure (Blank Screen)

When the system recognizes UV LAMP FAILURE (no current running through the UV lamp), the display will be blank (no default UV LAMP LIFE REMAINING screen) and the system will sound an intermittent audible tones (1 second on,1 second off). The system will remain in this state, until this condition is remedied.



# 5.2 12VDC Systems Incorporating BA-RO/P/12 Controller



Green LED indicates UV lamp "ON".

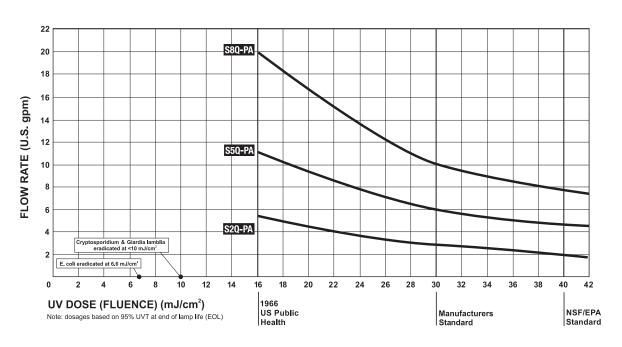
# Section 6 Troubleshooting

| Symptom                 | Possible Causes  | Solutions  |
|-------------------------|--|--|
|                         | Codiment are filter classed  | Replace filter cartridge with appropriate 5 micron cartridge.  |
| Pressure Drop           | Sediment pre-filter clogged  | Note: Check source water supply as fluctuations may occur in source pressure.  |
|                         | Flow regulator   | Flow regulator will result in pressure drop when approaching full flow.  |
|                         | Quartz sleeve is stained or dirty  | Clean sleeve with scale cleaner and eliminate source of staining problem (ie. soften hard water, refer to Section 4.2.   |
| High Bacteria           | Change in feed water quality   | Have source water tested to ensure that water quality is still within allowable limits for this system.  |
| Counts                  | Contamination in water lines after UV system (eg. power failures, plumbing                   | Disinfection system must have a bacterial free distribution system to work effectively. Refer to Section 3.2   |
|                         | Possible break-through of sediment through pre-filter  | Have source water tested for turbidity - may need stepped filtration in order to catch all sediment entering water system (20 micron filter followed by a 5 micron filter followed by UV |
| Heated Product<br>Water | Common problem caused by infrequent use of water   | Run water until it returns to ambient temperature.   |
| Water Appears<br>Milky  | Caused by air in the water lines   | Run water until air is purged.   |
|                         | Problem with O-ring seal (on retaining nut and/or UV sensor)                                 | Ensure O-ring is in place, check for cuts or abrasions, clean O-ring, moisten with water/ lubricant and re-install, replace if necessary (410867).                                       |
| Unit Leaking Water      | Condensation on UV chamber caused by excessive humidity & cold water                         | Check location of disinfection system and control humidity.  |
|                         | Inadequate inlet/outlet port connections   | Check thread connections, reseal with Teflon® tape and re-tighten.   |
| System Shutting         | Interrupted controller   | Ensure system has been installed on its own circuit, as other equipment may be drawing power away from UV (ie. pump or fridge).  |
| Down Intermittently     | ·  | UV system should not be installed on a circuit which is incorporated into a light switch.  |
| UV lamp Failure         | Loose connection between UV lamp and connector   | Disconnect UV lamp from connector and reconnect, ensuring that a tight fit is accomplished   |
| Alarm on - New<br>lamp  | Moisture build up in connector may keep UV lamp and connector from making a solid connection | Eliminate chance of any moisture getting to the connector and/or lamp pins   |

| DISPLAY FAULT MODES  |  |  |  |  |
|--|--|--|--|--|
| LED display roads "A2"   | UV lamp life expired - countdown is at "0" days. Refer to Section 5.1.2, Understanding your A3 Code.                         |  |  |  |
| LED display reads "A3"  • Press reset button for a deferred alarm, replace UV lamp |  |  |  |  |
|  | Controller is in UV lamp failure mode. Refer to Section 5.1.5, UV Lamp Failure. Replace UV Lamp, refer to Section 4.1.       |  |  |  |
| LED display is blank   | Power system down, allowing it to reset itself; apply power in order to confirm that the controller is able to power UV lamp |  |  |  |
|  | Check to see if there is sufficient power to the UV system   |  |  |  |
| Green LED off (12 VDC  | UV lamp failure. Replace UV Lamp, refer to Section 4.1.  |  |  |  |
| only)  | No input voltage to controller   |  |  |  |



# Section 7 Manufacturer's Dose Flow Chart



# Section 8 Specifications: Standard and Validated

| Model                      |  | S2Q-P/12VDC/<br>S2Q-PA                            |   | S5Q-P/12VDC/<br>S5Q-PA/SV5Q-PA*             |                            | S8Q-PA/<br>SV8Q-PA*                       |
|----------------------------|--|---|---|---|----------------------------|---|
|                            | *NSF Class B Certified<br>16mJ/cm <sup>2</sup> @ 70% UVT | -   |   | 3.6 gpm (13.6 lpm) (0.8 m <sup>3</sup> /hr) |                            | 7 gpm (26.5 lpm) (1.6 m <sup>3</sup> /hr) |
| Rate                       | US Public Health 16mJ/cm <sup>2</sup><br>@ 95% UVT       | 5 gpm (19 lpm)                                    | 5 gpm (19 lpm) (1.1 m <sup>3</sup> /hr) |   | ) (2.5 m <sup>3</sup> /hr) | 20 gpm (75 lpm) (4.5 m <sup>3</sup> /hr)  |
| Flow                       | VIQUA Standard 30 mJ/cm <sup>2</sup><br>@ 95% UVT        | 3 gpm (11 lpm)                                    | (0.7 m <sup>3</sup> /hr)                | 6 gpm (23 lpm)                              | ) (1.4 m <sup>3</sup> /hr) | 10 gpm (38 lpm) (2.3 m <sup>3</sup> /hr)  |
|                            | NSF/EPA 40mJ/cm <sup>2</sup> @ 95%<br>UVT                | 2 gpm (7 lpm)                                     | (0.4 m <sup>3</sup> /hr)                | 4.5 gpm (17 lpm) (1.0 m <sup>3</sup> /hr)   |                            | 8 gpm (29 lpm) (1.8 m <sup>3</sup> /hr)   |
|                            | Chamber  | 43.2 cm x 6.4 cm                                  | n (17" x 2.5")                          | 56 cm x 6.4 cm                              | n (22" x 2.5")             | 90 cm x 6.4 cm (35" x 2.5")               |
| ons                        | Controller 100-250 VAC                                   | 18.6 cm x 8.1 cm x 6.4 cm                         |   | 18.6 cm x 8.1 cm x 6.4 cm                   |                            | 18.6 cm x 8.1 cm x 6.4 cm                 |
| ensi                       | Controller 100-250 VAC                                   | (7.3" x 3.2" x 2.5")                              |   | (7.3" x 3.2" x 2.5")                        |                            | (7.3" x 3.2" x 2.5")                      |
| Dimensions                 | Controller 12 VDC  | 13.5 cm x 4.3 cm x 5.8 cm<br>(5.3" x 1.7" x 2.3") |   | 13.5 cm x 4.3 cm x 5.8 cm                   |                            |   |
|                            | Controller 12 VDC  |   |   | (5.3" x 1.7" x 2.3")                        |                            | -   |
| Inlet/0                    | Outlet Port Size <sup>1</sup>                            | 1/2" MNPT   |   | 3/4" MNPT"                                  |                            | 3/4" MNPT                                 |
| Shipp                      | ing Weight   | 2.7 kg (6 lbs)                                    |   | 2.7 kg (6 lbs)                              |                            | 4.5 kg (10 lbs)                           |
| <del>a</del>               | Voltage <sup>2</sup>                                     | 100-240 V /<br>50/60 Hz                           | 12 VDC                                  | 100-240 V /<br>50/60 Hz                     | 12 VDC                     | 100-240 V / 50/60 Hz                      |
| Electrical                 | Max. Current   | 0.6 Amp   | 1.8 Amp                                 | 0.6 Amp                                     | 1.8 Amp                    | 0.6 Amp                                   |
| Elec                       | Power Consumption  | 22 W  | 20 W                                    | 30 W  | 27 W                       | 46 W                                      |
|                            | UV lamp Watts  | 17 W  | 15 W                                    | 25 W  | 20 W                       | 37 W                                      |
| Maxin                      | num Operating Pressure                                   | 125 psi (861 kPa)                                 |   | 125psi (861 kPa)                            |                            | 125 psi (861 kPa)                         |
| Minimum Operating Pressure |  | 15 psi (103 kPa)                                  |   | 15psi (103 kPa)                             |                            | 15 psi (103 kPa)                          |
| Ambient Water Temperature  |  | 2-40 °C (36-104 °F)                               |   | 2-40 °C (36-104 °F)                         |                            | 2-40 °C (36-104 °F)                       |
| UV Lamp Type               |  | Sterilume™-EX (standard-output)                   |   | Sterilume™-EX (standard-output)             |                            | Sterilume™-EX (standard-output)           |
| UV Chamber Material        |  | 304 S   | 304 SS                                  |   | SS                         | 304 SS                                    |
| 1 Unit                     | 1 Units ending in "/2R" have RSPT connections            |   |   |   |                            |   |

<sup>&</sup>lt;sup>1</sup> Units ending in "/2B" have BSPT connections.



 $<sup>^{2}</sup>$  Units ending in  $^{\prime\prime}\!/2"$  are for 230V applications.

# Section 9 Manufacturer's Warranty

#### **Our Commitment**

VIQUA is committed to ensuring your experience with our products and organization exceeds your expectations. We have manufactured your UV disinfection system to the highest quality standards and value you as our customer. Should you need any support, or have questions about your system, please contact our Technical Support team at 1.800.265.7246 or technicalsupport@viqua.com and we will be happy to assist you. We sincerely hope you enjoy the benefits of clean, safe drinking water after the installation of your VIQUA disinfection system.

#### **How to Make a Warranty Claim**

**Note:** To maximise the disinfection performance and reliability of your VIQUA product, the system must be properly sized, installed and maintained. Guidance on the necessary water quality parameters and maintenance requirements can be found in your Owner's Manual.

In the event that repair or replacement of parts covered by this warranty are required, the process will be handled by your dealer. If you are unsure whether an equipment problem or failure is covered by warranty, contact our Technical Support team at 1.800.265.7246 or e-mail technicalsupport@viqua.com. Our fully trained technicians will help you troubleshoot the problem and identify a solution. Please have available the model number (system type), the date of purchase, the name of the dealer from whom you purchased your VIQUA product ("the source dealer"), as well as a description of the problem you are experiencing. To establish proof of purchase when making a warranty claim, you will either need your original invoice, or have previously completed and returned your product registration card via mail or online.

#### **Specific Warranty Coverage**

Warranty coverage is specific to the VIQUA range of products. Warranty coverage is subject to the conditions and limitations outlined under "General Conditions and Limitations".

#### Ten-Year Limited Warranty for VIQUA UV Chamber

VIQUA warrants the UV chamber on the VIQUA product to be free from defects in material and workmanship for a period of ten (10) years from the date of purchase. During this time, VIQUA will repair or replace, at its option, any defective VIQUA UV chamber. Please return the defective part to your dealer who will process your claim.

#### Three-Year Limited Warranty for Electrical and Hardware Components

VIQUA warrants the electrical (controller) and hardware components to be free from defects in material and workmanship for a period of three (3) years from the date of purchase. During this time, VIQUA will repair or replace, at its option, any defective parts covered by the warranty. Please return the defective part to your dealer who will process your claim.

#### One-Year Limited Warranty for UV lamps, Sleeves, and UV Sensors

VIQUA warrants UV lamps, sleeves, and UV sensors to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this time, VIQUA will repair or replace, at its option, any defective parts covered by the warranty. Your dealer will process your claim and advise whether the defective item needs to be returned for failure analysis.

**Note:** Use only genuine VIQUA replacement lamps and sleeves in your system. Failure to do so may seriously compromise disinfection performance and affect warranty coverage.

#### **General Conditions and Limitations**

None of the above warranties cover damage caused by improper use or maintenance, accidents, acts of God or minor scratches or imperfections that do not materially impair the operation of the product. The warranties also do not cover products that are not installed as outlined in the applicable Owner's Manual.

Parts repaired or replaced under these warranties will be covered under warranty up to the end of the warranty period applicable to the original part.

The above warranties do not include the cost of shipping and handling of returned items. The limited warranties described above are the only warranties applicable to the VIQUA range of products. These limited warranties outline the exclusive remedy for all claims based on a failure of or defect in any of these products, whether the claim is based on contract, tort (including negligence), strict liability or otherwise. These warranties are in lieu of all other warranties whether written, oral, implied or statutory. Without limitation, no warranty of merchantability or of fitness for a particular purpose shall apply to any of these products.

VIQUA does not assume any liability for personal injury or property damage caused by the use or misuse of any of the above products. VIQUA shall not in any event be liable for special, incidental, indirect or consequential damages. VIQUA's liability shall, in all instances, be limited to repair or replacement of the defective product or part and this liability will terminate upon expiration of the applicable warranty period.





APPENDIX D - BACTERIAL GROWTH IN GRANULAR ACTIVATED CARBON FILTERS; HUMAN HEALTH AND DISINFECTION

# Appendix D Additional Information Bacterial Growth in Granular Activated Carbon (GAC) Filters Human Health and Disinfection October 10, 2018, Revision March 6, 2019

As stated in the MDEQ's August 9, 2018 letter and as discussed in our July 25, 2018 meeting, several comments made by the MDEQ regarding the, *Alternate Water Supply Management Plan, Point-of-Entry Treatment Systems, Wolverine Worldwide, Inc.* (POET O&M Plan) may be addressed by additional information related to the bacteriological risks from the carbon filter systems as well as information regarding the operation of the ultra-violet (UV) lamp during interruptions in operation. Specific references in the MDEQ letter include; BP-4 and -12, Section 6.1.2.

The fundamental question/concern relates to the need for disinfection of the well water after GAC use. The POET system installation was designed with an UV light reactor that disinfects the treated water as a final step. R&W/GZA has indicated that the use of the UV on the filtered water is precautionary and not necessary for well water not contaminated with fecal bacteria. The use of the UV is a conservative measure to further ensure water quality but is not necessary to protect public health.

## Bacterial Control - Well Water Systems

None of the well water systems that the POET system was installed had disinfection systems installed to control bacteria prior to the installation of the POET. In general, disinfection systems are not installed on residential well water supplies. Testing for coliform bacteria may be performed when the well is initially installed, following repairs or modification, and periodically as required by health agencies.

The premise that disinfection is required is based on the addition of the carbon filtration system. The MDEQ has made the following comments to argue the systems require disinfection:

- The source water bacteriological water quality is unknown and a moving target.
- Even if wells tested non-detect initially, they can become contaminated in a number of ways.
- Compared to a home without treatment, a GAC filter provides an excellent medium for bacteriological attachment and growth if exposure occurs.
- Bacteriological contamination poses an acute health risk.

The initial two and fourth bullet points are true for a well water supply with or without a GAC treatment system. These arguments would support a requirement to install a disinfection system on any private well water supply (with or without treatment) thus do not justify the addition of a disinfection system based on the installation of GAC treatment alone. Since a well system can become contaminated at any time, by a variety of ways, and bacteriological contamination is an acute health risk, periodic testing of the well water supply is performed in the absence of a carbon treatment system. The concern that differentiates the POET system from any residential well water system is stated in the third bullet point, "Compared to a home without treatment, a GAC filter provides an excellent medium for bacteriological attachment and growth if exposure occurs."

The statement may (or may not) have some merit, however, if exposure occurs (the well becomes contaminated), there is likely little difference in the acute health risk to the users of the well water if the system has a carbon filtration system or no treatment.

Although bacteria are known to colonize on the GAC (Point-of-Use [POU] or POE), the bacteria do not pose a health risk when the water being treated meets acceptable water quality standards. EPA and the World Health Organization (WHO) have opined that the use of disinfection in POU and POE systems is not required when the water entering the POE and/or POU meets acceptable water quality standards.

The WHO states, "Exposure to HPC (Heterotrophic Plate Count) microbiota is far greater in foodstuffs than through drinking-water." Exposure to HPC occurs through the air and other environmental sources. Section 1.4.2 Epidemiology in-part states, "The available body of evidence supports the conclusion that, in the absence of fecal contamination, there is no direct relationship between HPC values in ingested water and human health effects in the population at large. This conclusion is also supported indirectly by evidence from exposures to HPC in foodstuffs, where there is no evidence for a health effects link in the absence of pathogen contamination."

In summary, the use of GAC will increase the area for bacteria to regrow in a water system. However, in the absence of pathogenic contamination, bacteria do not pose a health risk. There is no evidence that has found health effects linked to non-pathogenic contamination. If the well were contaminated, an acute health risk would exist with or without a GAC system.

The WHO report includes a chapter (Chapter 8) on the immunocompromised individuals. The executive summary of the report includes recommendations that more study is required for, ". . the immunocompromised (especially infection control in health care facilities and susceptible persons in the public at large)." As summarized by the EPA, "Normal drinking water is not always suitable for all such individuals for all uses (e.g., wound irrigation). This relates to water safety in general and not to growth or HPC organisms in particular. Advice should be provided by public health authorities to at-risk groups in general and by practitioners responsible for individuals discharged to home care."

In summary, infections from HPCs of immunocompromised patients in the general community is unclear.

## Bacterial Control - Carbon Systems

EPA states in a report entitled, *Water Health Series – Filtration Facts* that 4/10 Americans use a home water treatment. Most of these are Point-of-Use (POU) system that use carbon and do not include disinfection system. POU devices are commonly designed for a twelve-month service life.

#### Section 1.3.2 of the WHO Report states;

Bacterial growth occurs in plumbed-in domestic water devices (including water softeners, carbon filters, etc.) and plumbed-in commercial devices, such as beverage vending machines. HPC values in water samples typically increase in such devices. Increases of HPC (due to growth) in these devices therefore do not indicate the existence of a health risk, as long as the entry water meets acceptable microbial water quality norms (e.g., WHO *Guidelines for Drinkingwater Quality*).

Section 12.4 of the WHO Report states,

"Health Canada, the US Environmental Protection Agency (EPA), the US Consumer Product Safety Commission and the Italian government have all, at one time or another, proposed banning activated carbon filters used in home drinking-water treatment devices because of the growth of HPC bacteria on the carbon media and subsequent rises in HPC counts in the filtered water (Regunathan and Beauman 1994). After further study, however, all four decided against banning the filters. At Health Canada, the decision was made following consultations with stakeholders and was based on the absence of evidence of any illness linked to such devices."

Similar to the regrowth of biofilms in water distribution systems, increased levels of HPC are not generally a health concern in drinking water treatment devices. Some experimental evidence has shown that the presence of heterotrophic bacteria HPC bacteria in POU and POE devices may be beneficial, since ordinary bacterial growth may reduce the number of disease-causing organisms through dilution, competition or predation inside the treatment device — i.e., in carbon filters, resin beds, bladder tanks, etc. (Rollinger and Dott 1987).

Snyder et.al, evaluated the water quality of POU powdered activated carbon (PAC) filters, "...to determine how such treatment might impact the bacteriological quality of private, residential drinking water supplies." Snyder's work concluded that PAC treatment does not compromise the bacteriological quality of drinking water from well water supplies. A number of additional results from this study follow:

- First draw samples (following overnight static periods) from well water supplies were only slightly higher than their corresponding influent counts.
- Snyder reported work performed by others (Geldreich and Reasoner) found that a six-week no-flow period increased bacterial counts 1,000 10,000-fold. Although this was indicated as a concern by some referenced reports, Snyder reported that several authors, "...suggest that activated carbon has no significant effect on bacterial levels in drinking water on the basis of their findings that bacterial densities were similarly increased in unfiltered water after periods of no use." Finally, Snyder reported, "An epidemiological study by Calderon gave little evidence to associate any health risks with the use of carbon filters."
- Fiore and Babineau (7) also found that a 2-minute flushing period reduced bacterial populations in filter effluents. As such, Snyder concludes that, "any potential public health concern from exposure to elevated HPC in POU filter effluents following periods of no use may be reduced or eliminated by flushing the POU device before use."
- Snyder references two studies (Camper and Reasoner) that suggested high densities of heterotrophs may prevent pathogenic bacteria from colonizing and persisting on GAC beds.

# **EPA Document Summary**

As summarized in our previous response, an EPA document entitled, *Point-of-Use or Point-of-Entry Treatment Options for Small Drinking Water Systems* (EPA Document) summarizes that the use of disinfection for POU and POE systems is not required when the water entering the POE and/or POU meets acceptable water quality standards. Specifically, EPA states;

"In view of these conclusions, it is appropriate to recognize that although bacterial growth occurs in POU and POE water treatment devices, the increase of HPC in these devices does not indicate that a health risk exists, so long as the water entering the device meets acceptable water quality standards."

Although, this conclusion seems to be based on the WHO report and conclusions, the EPA report seems to contradict this conclusion in several locations. Specifically, when referencing regulations for drinking water the following text is included/referenced; " . . . GAC media are prone to microbial colonization (heterotrophic bacteria) on the GAC media. Some form of HPC monitoring and/or disinfection should be considered when using POU GAC and when using POE GAC. "

Although the references to the regulations raising concerns related to HPC's are accurate, the source of the HPC concerns related to GAC is found verbatum in the 1987 and 1988 Federal Register, 52 FR 25716, July 8, 1987; 53 FR 25111, July 1, 1988].

As noted by the WHO, several countries including the USEPA proposed banning activated carbon filters used in home drinking-water treatment devices because of the growth of HPC bacteria. It would appear the scientific evidence as presented in the WHO report has concluded the HPC bacteria growth is not a health concern.

# Summary

- EPA and the WHO have opined that the use of disinfection in POU and POE systems is not required when the water entering the POE and/or POU meets acceptable water quality standards.
- Exposure to HPC microbiota is far greater in foodstuffs than through drinking-water.
- 4/10 Americans use a home water treatment. Most of these are POU system that use carbon and do not include disinfection system.
- Bacterial growth occurs in carbon filters. HPC values in water samples typically increase in such
  devices. Increases of HPC (due to growth) in these devices do not indicate the existence of a health
  risk, as long as the entry water meets acceptable microbial water quality norms.
- The WHO report stated the EPA, the US Consumer Product Safety Commission proposed banning activated carbon filters used in home drinking-water treatment devices because of the growth of HPC bacteria on the carbon media and subsequent rises in HPC counts in the filtered water. However, after further study, decided against banning the filters.
- Snyder et.al, evaluated the water quality of POU PAC filters, "...to determine how such treatment
  might impact the bacteriological quality of private, residential drinking water supplies." Snyder's work
  concluded that PAC treatment does not compromise the bacteriological quality of drinking water from
  well water supplies.
- EPA document entitled, Point-of-Use or Point-of-Entry Treatment Options for Small Drinking Water Systems (EPA Document) summarizes that the use of disinfection for POU and POE systems is not required when the water entering the POE and/or POU meets acceptable water quality standards. Specifically, EPA states; "In view of these conclusions, it is appropriate to recognize that although bacterial growth occurs in POU and POE water treatment devices, the increase of HPC in these devices does not indicate that a health risk exists, so long as the water entering the device meets acceptable water quality standards."

Infections from HPCs of immunocompromised patients in the general community is unclear. The EPA
recommends that advice should be provided by public health authorities to at-risk groups in general
and by practitioners responsible for individuals discharged to home care."

Although the WHO, Snyder et.al, and EPA Report present that the HPCs do not pose a health risk, both the EPA and Snyder suggest the users of the POE systems should be instructed to run water at full flow for at least 30 seconds before use after a prolonged period of quiescence. The EPA report states, "The system may want to consider post-treatment disinfection to ensure customer safety." This has been added to Section 4.3 of the POET O&M Plan.

#### References

Criteria and Procedures for Public Water Systems Using Point-of-Entry Devices. 53<sup>rd</sup> Fed Reg. July 1, 1988.

Snyder, Joseph W., et.al. September 20, 1995. Effect of Point-of-Use, Activated Carbon Filters on the Bacteriological Quality of Rural Groundwater Supplies. Applied and Environmental Microbiology, Dec, 1995 p. 4291-4295.

United States Environmental Protection Agency. April 2006. Point-of-Use or Point-of-Entry Treatment Options for Small Drinking Water Systems. Prepared by The Cadmus Group, Inc.; Arlington, VA.

World Health Organization. 2003. Heterotrophic Plate Counts and Drinking-water Safety. The Significance of HPCs for Water Quality and Human Health. IWZ Publishing; London, UK

Use of Non-Centralized Treatment Devices. 52 Fed Reg. 25716. July 8<sup>th</sup>, 1987.

United States Environmental Protection Agency. September 2005. Water Health Series – Filtration Facts. (816-K-05-002)



**APPENDIX E - GRANULAR ACTIVATED CARBON DESIGN** 

# Appendix E Additional Information Granular Activated Carbon Design October 10, 2018, Revision March 6, 2019

As stated in the MDEQ's August 9, 2018 letter and as discussed in our July 25, 2018 meeting, several comments made by the MDEQ may be addressed by additional information related to the design of the carbon life based on flow, empty bed contact time (EBCT), and PFAS concentration. In addition, questions and concerns related to the calculation of predictive life of the carbon would support the frequency of sampling that was selected and changes to sampling frequency as discussed in the performance monitoring section (Section 6.1.3.2) of the "Alternate Water Supply Management Plan, Point-of-Entry Treatment Systems, Wolverine Worldwide, Inc." (POET O&M Plan). Specific references in the MDEQ letter include; BP-8, 1. Section 1.2, 2. Section 4.1, 14. Section 6.1.3.2, and 15. Section 6.1.3.3.

### Whole House Filter – Conceptual Design

The criteria mandated by Wolverine, when the decision was made to provide Whole House Filters (WHF), was the technology must be proven and used successfully for similar applications. Literature identified that both granular activated carbon (GAC) and reverse osmosis (RO) were effective for removal of PFAS compounds. R&W/GZA rejected the use of RO because the reject stream from the RO unit would need to be collected or discharged to the on-site septic system that discharges to the groundwater. Removing the PFAS from the groundwater and returning the concentrated PFAS back to the groundwater was not an acceptable solution. Based on this design criterion (not returning removed PFAS compounds to the groundwater), the use of RO was not acceptable. For the same reason, backwashing GAC columns was not be considered.

A number of factors that resulted in the recommendation by R&W/GZA of the Point-of-Entry Treatment (POET) system as developed by Culligan, utilizing Calgon Filtrasorb 600 GAC are summarized below:

- The system had been installed and operated at 500 homes in New Jersey and New York. Both the design and
  operation of the POET system for removal of PFAS has been demonstrated. No other supplier has equivalent
  experience with the two-stage GAC system.
- The system is generally in compliance and conforms with the document entitled, "New York State Department of Environmental Conservation (Department) Point of Entry Treatment (POET) System Specification."
- The system uses Filtrasorb 600 GAC from Calgon which is specified in the New York POET specification identified above. Filtratsorb 600 has been tested for PFAS removal and demonstrated to be effective. No other supplier provided information to confirm the proposed GAC has been used for and proven for removal of PFAS.
- Culligan had experience operating and maintaining hundreds of POETs in Bennington County, Vermont. We
  deemed it unlikely Culligan would agree to perform operation and maintenance on a system they have not
  supplied.
- Over 255 POETs were installed in Bennington County, Vermont by November 16, 2016. The highest concentration reported was 4,600 ppt PFOA (the concentration of other PFAS were not available). Following three months of monthly monitoring, no breakthrough was measure at the mid-point sampling point.

### Whole House Filter – Detailed Design

Based on the above, R&W/GZA prepared a specification for the WHFs. The specification was delivered to the MDEQ on November 24, 2017 in response to the MDEQ's request. In general, the system is a two-stage granular activated carbon system equipped with pre- and post-sediment filters, an ultraviolet (UV) disinfection lamp, and flow meter.

R&W/GZA initially recommended performing an Accelerated Carbon Test (ACT) to assess GAC capacity using western Michigan groundwater. However, the ACT test would have delayed the installation of the WHF unit by two months. In the absence of an ACT, R&W/GZA used results from an isotherm study performed for Hoosick Falls, New York and the information available from the Bennington County, Vermont GAC systems. In the absence of an ACT for western Michigan groundwater, this data was used conservatively as will become evident in the following discussions.

Working with Culligan's plant design specialist, assuming similar flows and loadings, and low TOC concentration, Culligan believed that the two-stage, 4.0 cubic-foot system had been demonstrated for loadings up to 7,500 ppt PFAS using an EBCT of approximately 3.75 minutes (nominally 4 minutes). As stated in our prior correspondence, for high PFAS concentrations (defined as greater than 7,500 ppt), the EBCT was increased to 7.5 minutes (nominally 8 minutes) by installing four columns in a 2 x 2 configuration.

Although literature from Calgon recommended an EBCT of 8-10 minutes in the absence of an ACT, this general statement did not apply to the Wolverine design for the following reasons:

- The flow from a residential well is not continuous. Culligan's plant design specialist discounted this 8 to 10-minute EBCT stated in general Calgon literature since the flow is on-off and averages much less than the maximum flow of 8 gpm for the POET system.
- Culligan has hundreds of POET systems installed for residential purposes using the EBCT of 3.75 minutes.
- The groundwater did not contain detectable organic compounds which would compete with the PFAS adsorption.
- RW/GZA believed that periodic testing would be the best way to determine capacity and prepared an O&M manual that included performance monitoring.

The nominal EBCT for a standard POET system is 4 minutes. This is controlled by restricting the maximum flow through the system to 8 gallons per minute (gpm). If it is determined that the user requires more than 8 gpm, two systems will be installed in parallel (four GAC columns) to provide a "high flow" water use of 16 gpm.

Installations with total PFOA+PFOS concentrations that exceed 7,500 ppt were identified as "high concentration" installations. The nominal EBCT for high concentration installations is 8 minutes. This is performed by using four tanks. Although similar to the high flow system, the flow is restricted to 8.0 gpm which effectively doubles the EBCT.

Table 1 summarizes the POET system installations:

Table 1
POET System
Alternate Configurations

| POET Configuration        | GAC Columns            | EBCT (minutes) | Max Flow (gpm) |
|---------------------------|------------------------|----------------|----------------|
| Standard                  | Lead (2 CF) Lag (2 CF) | 4              | 8              |
| High Flow                 | Lead (4 CF) Lag (4 CF) | 4              | 16             |
| High Concentration        | Lead (4 CF) Lag (4 CF) | 8              | 8              |
| High Flow & Concentration | Lead (8 CF) Lag (8 CF) | 8              | 16             |

### Periodic Testing-Performance Monitoring

The O&M plan includes recommendations for sampling frequency and locations (influent, mid-point, and effluent) for the POET systems. The recommendations are based on a combination of the influent concentration and estimated breakthrough time for PFOA+PFOS (through the lead carbon column.) The following sections provide additional information related to the sampling frequency and sample points.

#### Sampling Frequency

In order to establish the testing frequency, an estimate of the carbon life is needed. To estimate the carbon life, R&W/GZA used an equation from Metcalf & Eddy (M&E) Wastewater Engineering Treatment, Disposal, Reuse, 3<sup>rd</sup> Edition, page 323. The time of breakthrough (tb) was calculated using various concentrations of PFOA+PFOS, the X/M isotherm from Hooksick Falls, and the variables (flow and carbon mass) related to EBCT outlined above. The M&E equation includes a variable for the "% of carbon used." When calculating tb in the absence of known data for % of carbon used, M&E recommends using 25%. R&W/GZA used assumed an average residential flow of 350 gpd for calculation of tb.

Excerpt of M&E tb equation:

$$t_b = \frac{(x/m)_b M_c}{Q[C_i - (C_b/2)][8.34 \text{ lb/Mgal} \cdot (\text{mg/L})]}$$

The following table summarizes the safety factors used for establishing the initial sampling frequencies:

Table 2
Carbon Breakthrough Calculations
Safety Factors Used

| Description/Parameter                | Values  | Safety Factor (SF)   |
|--------------------------------------|---|----------------------|
| % Carbon Used                        | M&E recommends 0.25% - RW/GZA used 0.125%                           | 2.0                  |
| Calculated Breakthrough of Lead Only | Recommended for normal operation – lag column provides 100% back-up | 2.0                  |
| Adjust tb from calculation           | Divide result by 2.0 to provide a safety factor of 2.0              | 2.0                  |
| Total Safety Factor                  |   | 8.0 (multiplicative) |

Table 3 summarizes the results of the calculation of tb for the lead column for various concentrations of PFOA+PFOS and the adjusted tb based on the SF applied to the calculation.

Table 3
Carbon Breakthrough Calculations
Summary of Results

| PFOS+PFOA<br>Concentration<br>(ppt) | Cubic Foot<br>GAC (CF) | tb (days) | tb Lead<br>Column<br>(days) | SF | tb<br>Used (days) | Sampling Frequency/Notes   |
|-------------------------------------|------------------------|-----------|-----------------------------|----|-------------------|--|
| 70                                  | 4                      | 18,323    | 9,162                       | 4  | 2,290             | <b>70-200, Semi-annual</b> /annual seems appropriate, however in the absence of a column test – seems too long |
| 200                                 | 4                      | 5,271     | 2,635                       | 4  | 659               | <b>200-1,000, Quarterly</b> /quarterly is required for 1,000 ppt based on tb                                   |
| 1,000                               | 4                      | 979       | 490                         | 4  | 122               | 1,000-7,500, Monthly/monthly required for tb at 7,500 ppt  |
| 7,500                               | 8                      | 257       | 127                         | 4  | 32                | <b>7,500-35,000, Weekly/</b> weekly required for tb at 35,000 ppt  |
| 35,000                              | 8                      | 55        | 28                          | 4  | 7                 |  |

In the absence of any safety factors, the highest PFOA+PFOS concentration (35,000 ppt) was calculated to breakthrough in 55 days or detected at the mid-point sample tap in four weeks (28 days). The conservative approach used and outlined above requires sampling weekly.

#### **Sampling Points**

As stated in the Plan, "Performance monitoring will be conducted to establish lead canister breakthrough time (and an associated treated water volume) to establish an appropriate schedule for routine monitoring and carbon change out." More specifically, breakthrough (to mid-point) based on site-specific operating conditions is used to establish routine monitoring frequencies.

The rational for the sample points was summarized in our prior response letter dated May 15, 2018. In addition to that response, we have included additional rational for each range presented in Section 6.1.3.2 of the May 2018 O&M Plan:

• Homes with previous non-detect (ND) PFOS+PFOA well sample: annual sampling of the influent. If low level PFOS+PFOA is observed in the influent, then the home will be placed into the 1-70 ppt group.

Rational: Sampling of the effluent or mid-point of the POET system is unnecessary when the concentration of PFOS+PFOA in the influent is ND because no treatment is required. Thus, no demonstration of PFOS+PFOA removal is needed (when the concentration is ND). The rationale for sampling the influent is to verify no treatment is required. If sampling finds concentrations >1 ppt, the monitoring of influent and mid-point will be initiated on a semi-annual basis.

Homes with 1 – 70 ppt total PFOS+PFOA: semi-annual sampling (influent and mid-point). Similarly, if
changes to the influent concentration falls into a different concentration range, the sampling frequency will
be adjusted accordingly;

Rational: Sampling of the effluent of the POET system is unnecessary when the concentration of PFOS+PFOA is 1-70 ppt because no treatment is required to protect public health. Thus, no demonstration of PFOS+PFOA removal is need (when the concentration is between1-70 ppt). The rationale for sampling the influent and mid-point is to verify that that no treatment is required. If sampling finds PFOS+PFOA concentrations >70 ppt, influent and mid-point monitoring will be initiated on a quarterly basis.

Homes with 71 – 1,000 ppt total PFOS+PFOA: Quarterly sampling (influent, mid-point);

Rational: Sampling of the influent and mid-point is needed to monitor the system performance and calculate breakthrough. As stated above, the combination of the influent concentration and calculation of the time of PFOA+PFOS breakthrough from the lead carbon column is used to monitor the system. Breakthrough of the higher loadings (see below) will be used as a guide to estimate the loadings with concentrations that are less than 1,000 ppt. If sampling finds concentrations >1,000 ppt PFOS+PFOA, the monitoring of this system will be moved to a monthly basis.

Homes with 1,001 – 7,499 ppt total PFOS+PFOA: Monthly sampling (influent, mid-point, and effluent); and

Rational: Sampling of the influent and mid-point is needed to monitor the system performance and calculate breakthrough. As stated above, the combination of the influent concentration and calculation of the time of PFOA+PFOS breakthrough from the lead carbon column is used to monitor the system. Although effluent sampling from the lag column is technically not needed for operation, the effluent sampling was included to verify that the filter system is operating effectively.

Homes with 7,500+ ppt PFOS+PFOA: Weekly sampling (influent, mid-point, effluent).

Rational: Sampling of the influent and mid-point is needed to monitor the system performance and calculate breakthrough. As stated above, the combination of the influent concentration and calculation of the time of PFOA+PFOS breakthrough from the lead carbon column is used to monitor the system. Although effluent sampling from the lag column is technically not needed for operation, the effluent sampling was included to verify that the filter system is operating effectively.

#### **GAC Performance Review**

A review of the performance of two of the POET systems with the highest PFOA+PFOS loadings and comparison to the predicted performance discussed above is summarized in the following Table 4.

Table 4
Carbon Performance Review
Sampling Results as of August 3, 2018

| Description   | POET System #1 | POET System #2 |
|---|----------------|----------------|
| Days of Operation (days)                                    | 189            | 187            |
| Total Flow Treated (gallon)                                 | 22,665         | 39,368         |
| Average daily flow (gallon/day)                             | 120            | 210            |
| Average PFOA+PFOS Influent Concentration (ppt)              | 49,056         | 23,845         |
| Predicted Operation Prior to Start-up                       |                |                |
| Calculated days until breakthrough (days)                   | 55             | 72             |
| Safety Factor Used – lead column breakthrough               | 4              | 4              |
| Estimated tb – breakthrough used for Performance Monitoring | 14             | 18             |
| Ratio - Actual tb: Estimated tb (as of August 3, 2018)      | 13.5:1         | 10.4:1         |

The WHF installations with the highest loadings (currently sampled weekly) have not experienced breakthrough

POET O&M – Appendix E Page 6 of 5

following six months of operation. Although we have not yet had breakthrough, the assumptions and safety factors used to calculate the days until breakthrough (tb) were conservative by over an order of magnitude. Stated another way, if we had conservatively calculated breakthrough to be one week, the actual time to breakthrough would be over ten weeks. Or if we had conservatively calculated breakthrough in one month, the actual time to breakthrough would be over ten months.

#### **Routine Monitoring**

As summarized in our May 15, 2108 response to your questions related to sample frequency in Section 6.1.3.3. of the O&M Plan, we reviewed the performance of the systems (based on three months of operation) and concluded, "Based on the review of the performance monitoring as part of this response, we have modified the plan to require weekly sampling for homes with concentrations of PFOA+PFOS above 30,001 ppt. We will revise the monthly sampling range to 1,001 - 30,000 ppt and review this frequency following 9 months of operation."

The review outlined above is based on six months of weekly sampling data. The review of performance supports the prior conclusion to revise the monthly sampling range as discussed above.

#### Summary

The MDEQ's August 9, 2018 response to our May 15, 2018 letter simply repeated a number of prior comments included in the MDEQ's April 3, 2018 letter without commenting, discussing, or presenting any additional comments in response to our explanations and presentation of information related to the MDEQ's comments. The MDEQ include the following statement following a several of the repeated comments from the April 3, 2018 letter.

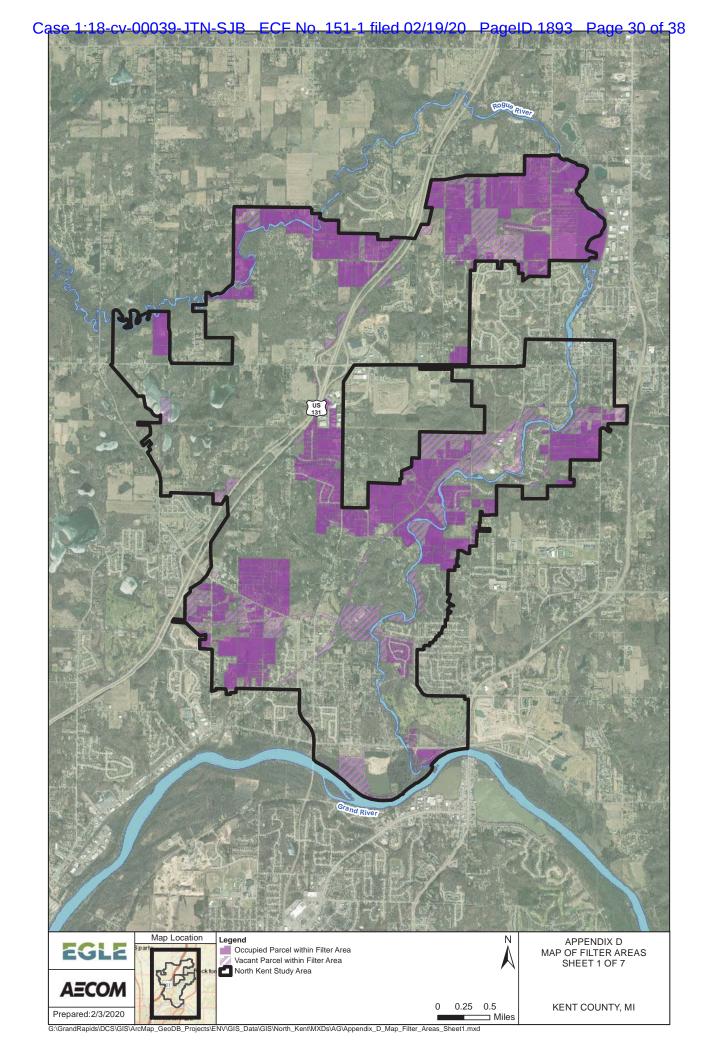
"During the July 25, 2018 meeting, R&W/GZA agreed to include in the Plan the assumptions and calculations used as the basis to develop mid-stage breakthrough time estimates and the filter system designs for the anticipated contaminant loading and flow rates."

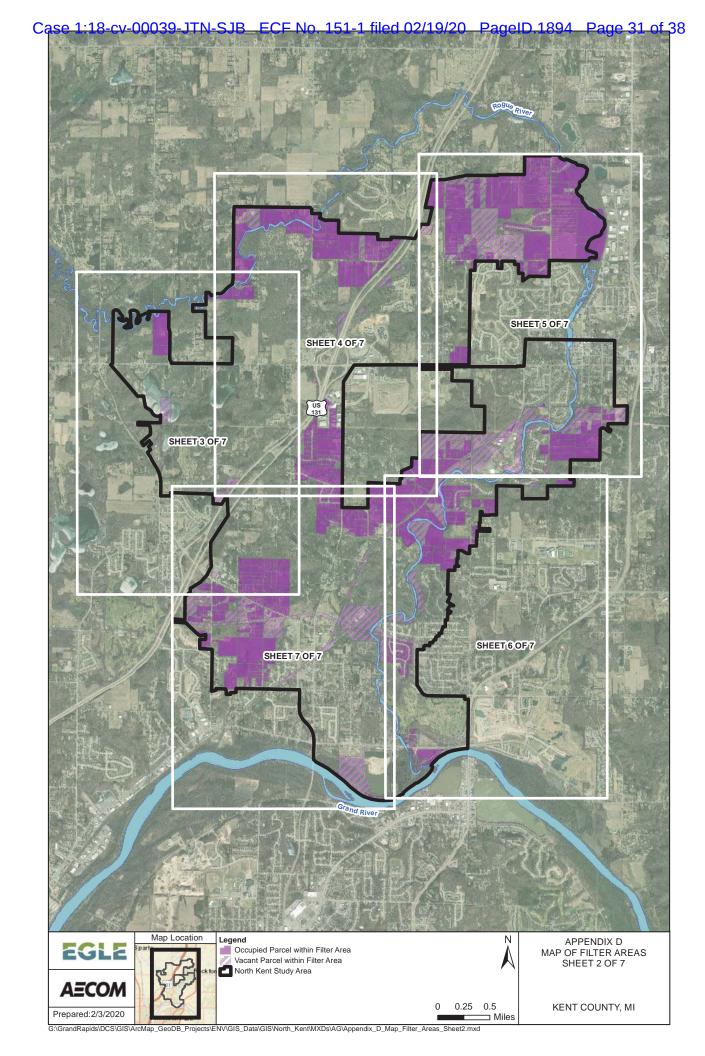
We believe the discussion of the assumptions and safety factors responds to both the initial design and monitoring plan and the proposed routine monitoring based on the performance of the first six months of operation.

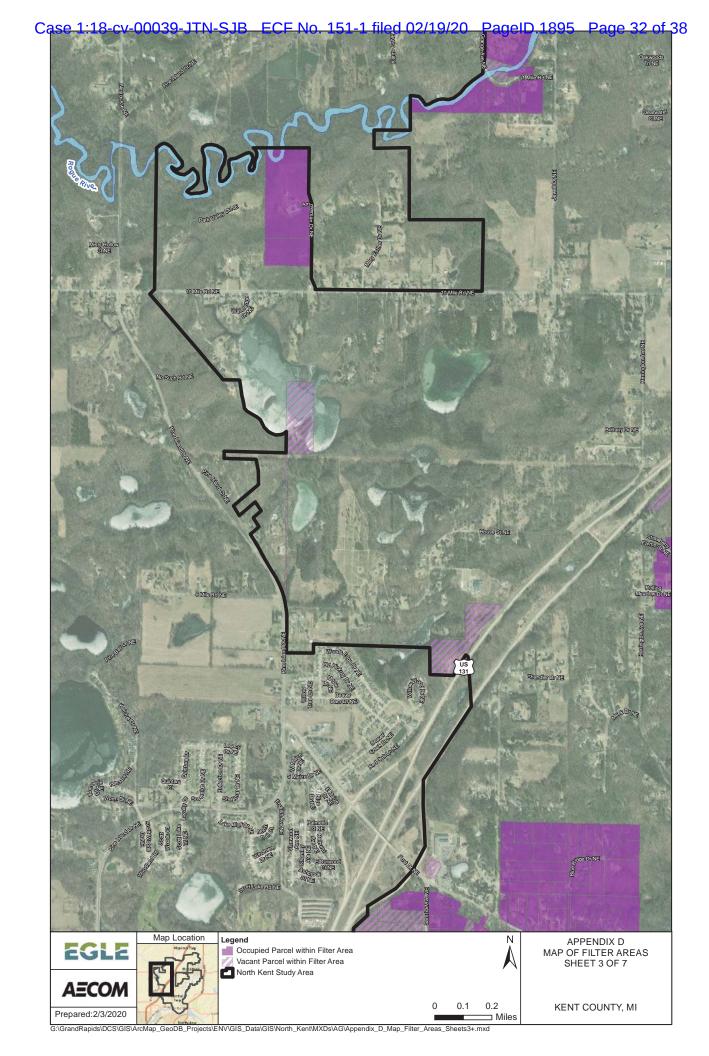


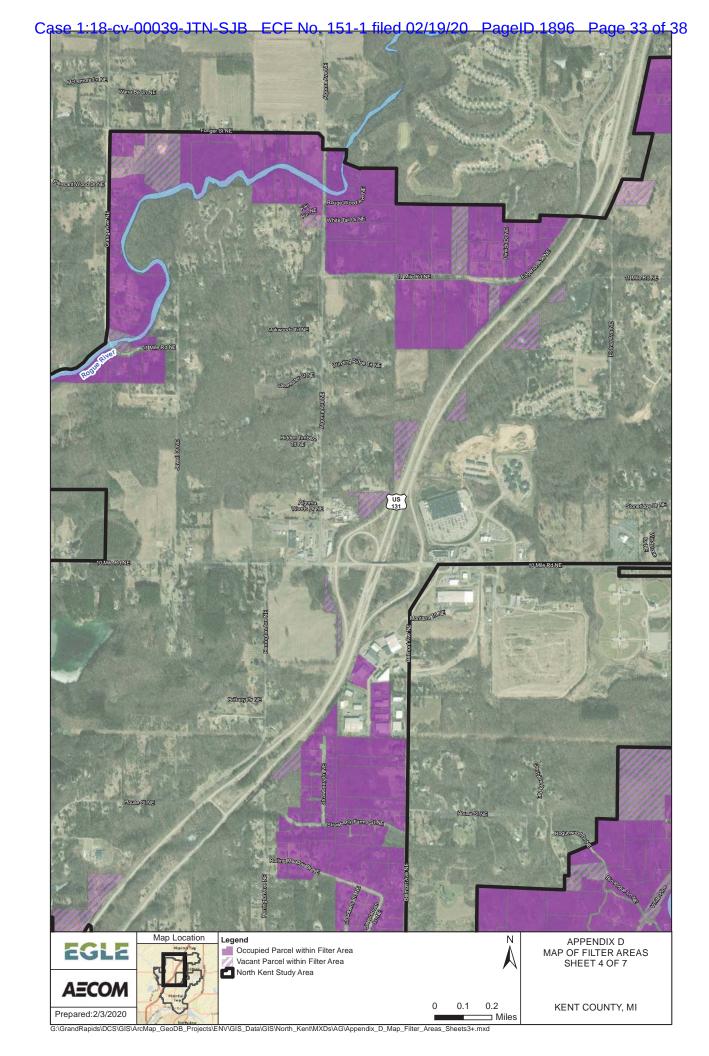
# APPENDIX C CD Appendices D and I

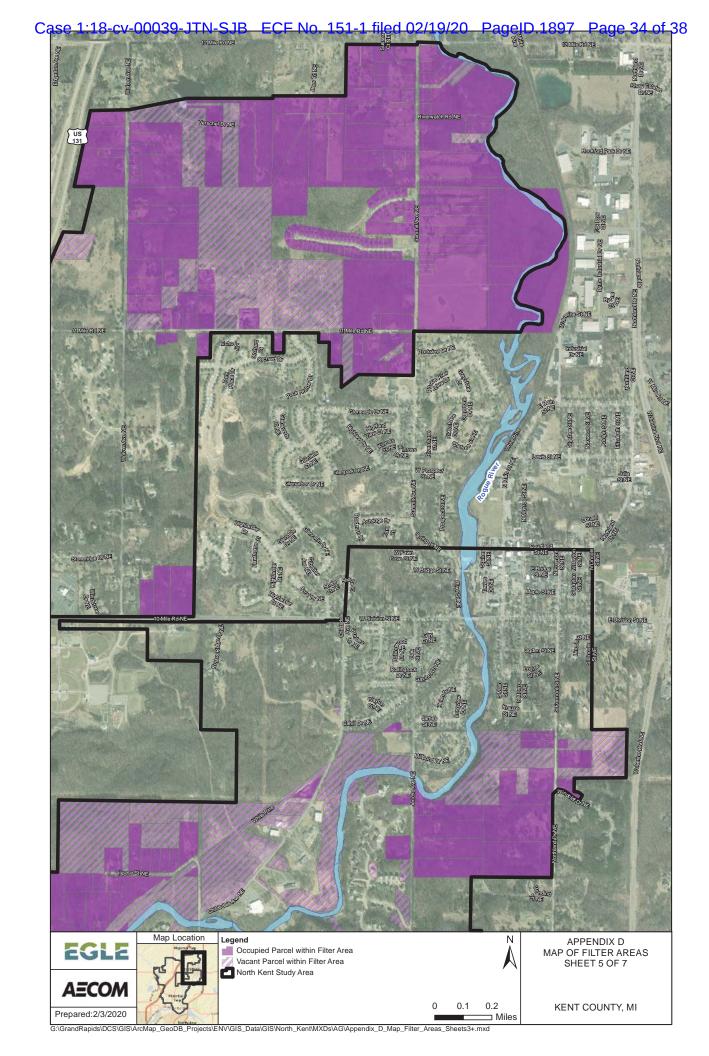
# Appendix D

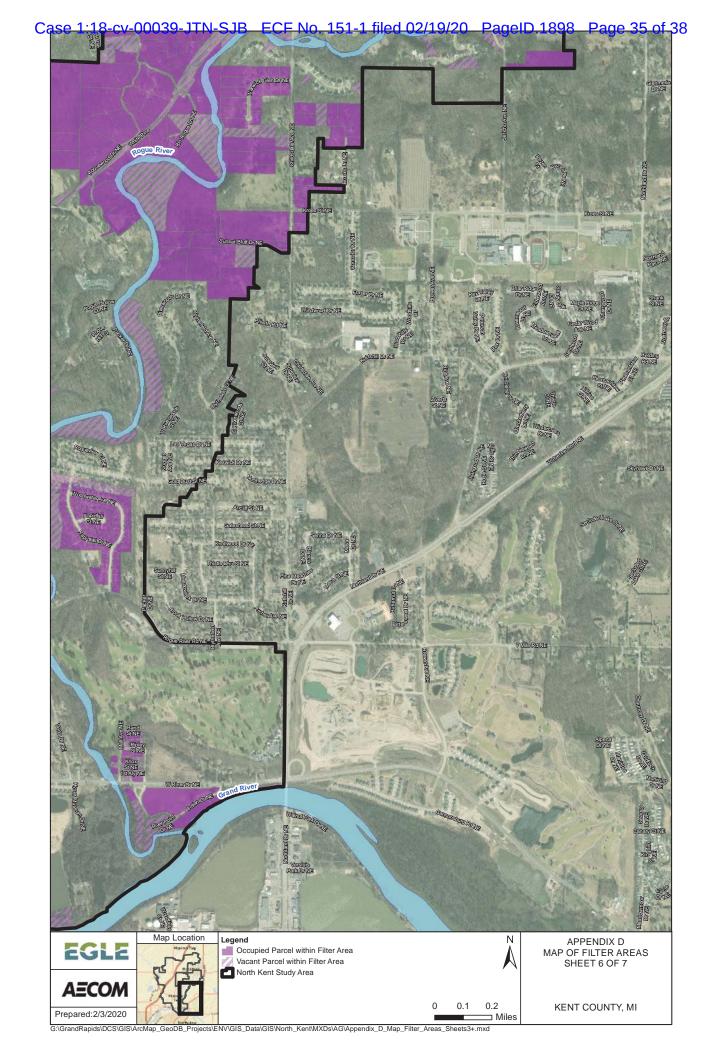


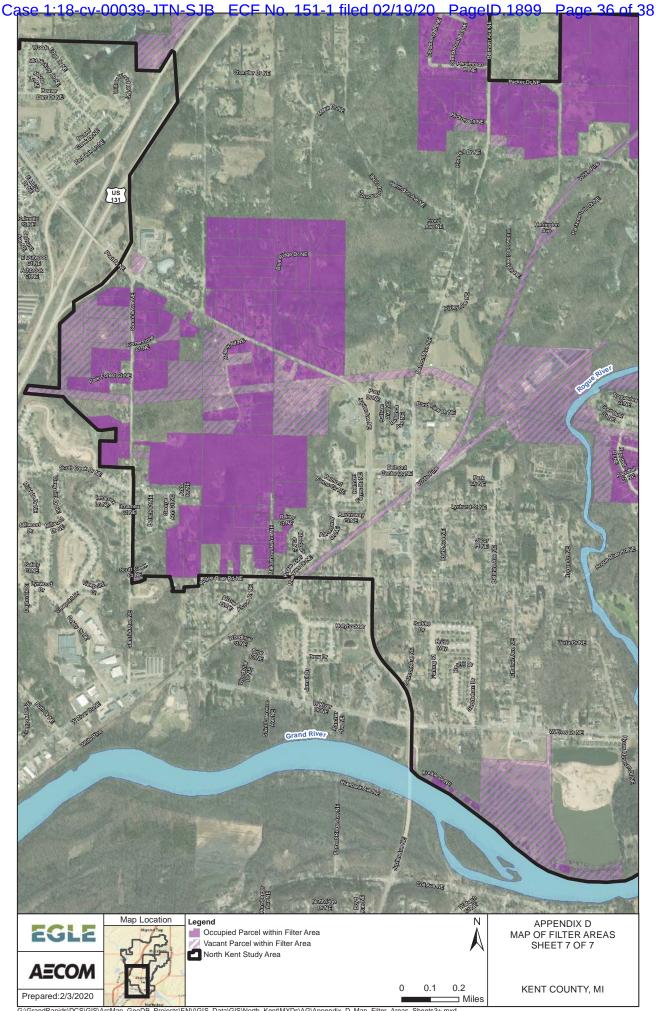












# Appendix I

| PPN          | Address            | City          | Zip Code |
|--------------|--------------------|---------------|----------|
| 411005126043 | 1008 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126044 | 1022 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 410632300011 | 1031 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126006 | 1038 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 410632300009 | 1045 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126007 | 1052 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126008 | 1068 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126009 | 1084 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 410632300006 | 1095 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126047 | 1126 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126026 | 1140 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 410632300012 | 1155 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005126062 | 1172 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005400043 | 1265 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005400042 | 1271 HOUSE ST NE   | BELMONT       | MI49306  |
| 411008200040 | 1300 HOUSE ST NE   | BELMONT       | MI49306  |
| 410632400075 | 1307 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005200041 | 1310 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411008200045 | 1310 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005200001 | 1332 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005400037 | 1339 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005200002 | 1344 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005400038 | 1359 HOUSE ST NE   | BELMONT       | MI49306  |
| 411008200036 | 1360 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005400034 | 1379 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005200027 | 1380 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411008200049 | 1430 HOUSE ST NE   | BELMONT       | MI49306  |
| 411008200019 | 1440 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005400045 | 1447 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005200028 | 1456 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005200029 | 1460 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411008200011 | 1460 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005400018 | 1475 HOUSE ST NE   | BELMONT       | MI49306  |
| 411008200012 | 1480 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005400019 | 1495 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005400024 | 1499 HOUSE ST NE   | BELMONT       | MI49306  |
| 411008200015 | 1500 HOUSE ST NE   | BELMONT       | MI49306  |
| 411005200034 | 1530 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005200024 | 1538 10 MILE RD NE | COMSTOCK PARK | MI49321  |
| 411005200025 | 1542 10 MILE RD NE | COMSTOCK PARK | MI49321  |

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|--------------|---|---------------|----------|
| 411005200026 | 1546 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411005200038 | $1550\ 10\ \mathrm{MILE}\ \mathrm{RD}\ \mathrm{NE}$ | COMSTOCK PARK | MI49321  |
| 411009100047 | 1572 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411009100041 | 1580 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411009100042 | 1584 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411005200039 | 1590 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411005400025 | 1597 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411009100043 | 1600 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411005400008 | 1601 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411005200032 | 1602 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411005400030 | 1617 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411005200042 | 1622 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411005400031 | 1625 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300045 | 1640 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300047 | 1650 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300060 | 1654 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411005400011 | 1655 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411005200043 | 1656 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004300049 | 1664 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004101002 | 1672 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004300050 | 1676 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300051 | 1682 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300052 | 1698 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004101003 | 1700 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004300022 | 1711 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004104002 | 1736 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004105002 | 1740 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004102001 | 1744 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004300023 | 1767 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300057 | 1778 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300010 | 1781 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004300054 | 1786 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004103002 | 1820 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004103003 | 1840 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004300036 | 1850 HOUSE ST NE                                    | BELMONT       | MI49306  |
| 411004126005 | 1866 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004126007 | 1884 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 410633100082 | 1899 OFFROAD DR NE                                  | COMSTOCK PARK | MI49321  |
| 411004126002 | 1918 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |
| 411004126003 | 1940 10 MILE RD NE                                  | COMSTOCK PARK | MI49321  |

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| 410633100083 | 1969 OFFROAD DR NE         | COMSTOCK PARK | MI49321   |
| 410633300007 | 1981 10 MILE RD NE         | COMSTOCK PARK | MI49321   |
| 410628300011 | 1981 11 MILE RD NE         | ROCKFORD      | MI49341   |
| 410633100081 | 1990 OFFROAD DR NE         | COMSTOCK PARK | MI49321   |
| 411009401007 | 2001 MEEK DR NE            | BELMONT       | MI49306   |
| 410633402001 | 2010 GREEN TIMBERS DR      | COMSTOCK PARK | MI49321   |
|              | NE                         |               |           |
| 410628451002 | 2011 11 MILE RD NE         | ROCKFORD      | MI49341   |
| 411009251019 | 2020 KORBEN WOODS CT       | BELMONT       | MI49306   |
|              | NE                         |               |           |
| 411004127010 | 2020 SQUIREWOOD CT NE      | COMSTOCK PARK | MI49321   |
| 411004127013 | 2021 SQUIREWOOD CT NE      | COMSTOCK PARK | MI49321   |
| 411009401006 | 2023 MEEK DR NE            | BELMONT       | MI49306   |
| 411009401010 | 2024 MEEK DR NE            | BELMONT       | MI49306   |
| 410628451003 | 2029 11 MILE RD NE         | ROCKFORD      | MI49341   |
| 410633451004 | 2031 10 MILE RD NE         | COMSTOCK PARK | MI49321   |
| 411004128001 | 2034 10 MILE RD NE         | COMSTOCK PARK | MI49321   |
| 411009401014 | 2036 MEEK DR NE            | BELMONT       | MI49306   |
| 411009251018 | 2039 KORBEN WOODS CT       | BELMONT       | MI49306   |
|              | NE                         |               |           |
| 411009401005 | 2039 MEEK DR NE            | BELMONT       | MI49306   |
| 411009251020 | 2042 KORBEN WOODS CT       | BELMONT       | MI49306   |
| 411004105010 | NE                         |               | NET 40001 |
| 411004127012 | 2045 SQUIREWOOD CT NE      | COMSTOCK PARK | MI49321   |
| 410633201002 | 2050 11 MILE RD NE         | ROCKFORD      | MI49341   |
| 410633402002 | 2050 GREEN TIMBERS DR      | COMSTOCK PARK | MI49321   |
| 411004107011 | NE OCCULIDENCOD OT ME      | COMCTOCK DADK | MI 40201  |
| 411004127011 | 2050 SQUIREWOOD CT NE      | COMSTOCK PARK | MI49321   |
| 411009401001 | 2051 MEEK DR NE            | BELMONT       | MI49306   |
| 411009251017 | 2055 KORBEN WOODS CT<br>NE | BELMONT       | MI49306   |
| 411009401018 | 2060 MEEK DR NE            | BELMONT       | MI49306   |
| 411009251022 | 2066 MEEK DR NE            | BELMONT       | MI49306   |
| 410633402009 | 2069 GREEN TIMBERS DR      | COMSTOCK PARK | MI49321   |
|              | NE                         |               |           |
| 411004200012 | 2070 10 MILE RD NE         | COMSTOCK PARK | MI49321   |
| 411009251023 | 2072 MEEK DR NE            | BELMONT       | MI49306   |
| 411009251021 | 2075 KORBEN WOODS CT       | BELMONT       | MI49306   |
|              | NE                         |               |           |
| 411009251016 | 2077 KORBEN WOODS CT       | BELMONT       | MI49306   |
|              | NE                         |               |           |

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| 411004200031 | 2080 10 MILE RD NE                | COMSTOCK PARK | MI49321  |
| 411009251024 | 2086 MEEK DR NE                   | BELMONT       | MI49306  |
| 410633402003 | 2088 GREEN TIMBERS DR             | COMSTOCK PARK | MI49321  |
| 410633402008 | NE<br>2091 GREEN TIMBERS DR<br>NE | COMSTOCK PARK | MI49321  |
| 411004200058 | 2100 BRENT DR NE                  | BELMONT       | MI49306  |
| 411009251025 | 2100 MEEK DR NE                   | BELMONT       | MI49306  |
| 411004200032 | 2109 BRITTANY DR NE               | BELMONT       | MI49306  |
| 410633402004 | 2110 GREEN TIMBERS DR<br>NE       | COMSTOCK PARK | MI49321  |
| 411004401001 | 2115 HOUSE ST NE                  | BELMONT       | MI49306  |
| 410633402007 | 2119 GREEN TIMBERS DR<br>NE       | COMSTOCK PARK | MI49321  |
| 411009251003 | 2141 MEEK DR NE                   | BELMONT       | MI49306  |
| 410633402005 | 2144 GREEN TIMBERS DR<br>NE       | COMSTOCK PARK | MI49321  |
| 411004200033 | 2145 BRITTANY DR NE               | BELMONT       | MI49306  |
| 410633402006 | 2145 GREEN TIMBERS DR<br>NE       | COMSTOCK PARK | MI49321  |
| 411009251004 | 2147 MEEK DR NE                   | BELMONT       | MI49306  |
| 411004200059 | 2150 BRENT DR NE                  | BELMONT       | MI49306  |
| 411009251005 | 2153 MEEK DR NE                   | BELMONT       | MI49306  |
| 411009251027 | 2154 MEEK DR NE                   | BELMONT       | MI49306  |
| 411004200034 | 2179 BRITTANY DR NE               | BELMONT       | MI49306  |
| 411004200015 | 2186 10 MILE RD NE                | BELMONT       | MI49306  |
| 410633201004 | 2190 11 MILE RD NE                | ROCKFORD      | MI49341  |
| 411004200056 | 2200 BRENT DR NE                  | BELMONT       | MI49306  |
| 410633226001 | 2202 11 MILE RD NE                | ROCKFORD      | MI49341  |
| 410633451009 | 2203 10 MILE RD NE                | COMSTOCK PARK | MI49321  |
| 410628478003 | 2211 11 MILE RD NE                | ROCKFORD      | MI49341  |
| 410633277007 | 2211 CLEAR WATER CT NE            | ROCKFORD      | MI49341  |
| 410628478004 | 2215 11 MILE RD NE                | ROCKFORD      | MI49341  |
| 410633226002 | 2222 11 MILE RD NE                | ROCKFORD      | MI49341  |
| 411009428001 | 2241 SPRUCEWOOD CT NE             | BELMONT       | MI49306  |
| 410633277006 | 2245 CLEAR WATER CT NE            | ROCKFORD      | MI49341  |
| 410633426017 | 2250 HIDDEN TIMBERS<br>TRL NE     | ROCKFORD      | MI49341  |
| 411009428002 | 2250 SPRUCEWOOD CT NE             | BELMONT       | MI49306  |
| 410628478002 | 2251 11 MILE RD NE                | ROCKFORD      | MI49341  |
| 410633226003 | 2260 11 MILE RD NE                | ROCKFORD      | MI49341  |

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| 411009428003                            | 2260 SPRUCEWOOD CT NE         | BELMONT  | MI49306    |
| 411009428004                            | 2265 SPRUCEWOOD CT NE         | BELMONT  | MI49306    |
| 410633277005                            | 2279 CLEAR WATER CT NE        | ROCKFORD | MI49341    |
| 410633426012                            | 2280 ALGOMA WOODS DR          | ROCKFORD | MI49341    |
|   | NE                            |          |            |
| 410633426009                            | 2281 ALGOMA WOODS DR          | ROCKFORD | MI49341    |
|   | NE                            |          |            |
| 410633226004                            | 2286 11 MILE RD NE            | ROCKFORD | MI49341    |
| 410633426005                            | 2290 HIDDEN TIMBERS           | ROCKFORD | MI49341    |
|   | TRL NE                        |          |            |
| 411016276020                            | 2295 POST DR NE               | BELMONT  | MI49306    |
| 410633426013                            | 2300 ALGOMA WOODS DR          | ROCKFORD | MI49341    |
| 41100100005                             | NE                            | DELMONT  | MT 40000   |
| 411021226037                            | 2300 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 410633277004                            | 2301 CLEAR WATER CT NE        | ROCKFORD | MI49341    |
| 411016276019                            | 2309 POST DR NE               | BELMONT  | MI49306    |
| 410633226019                            | 2316 11 MILE RD NE            | ROCKFORD | MI49341    |
| 411016476021                            | 2317 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 410633426010                            | 2323 ALGOMA WOODS DR          | ROCKFORD | MI49341    |
| 410000000000000000000000000000000000000 | NE                            | DOCKTODD | N/T 400 41 |
| 410633277003                            | 2323 CLEAR WATER CT NE        | ROCKFORD | MI49341    |
| 410633426014                            | 2324 ALGOMA WOODS DR          | ROCKFORD | MI49341    |
| 410022420000                            | NE SANGEMENTANDEDC            | ROCKFORD | MT40941    |
| 410633426006                            | 2330 HIDDEN TIMBERS<br>TRL NE | ROCKFORD | MI49341    |
| 411021226034                            | 2332 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 410633426023                            | 2333 HIDDEN TIMBERS           | ROCKFORD | MI49341    |
| 410055420025                            | TRL NE                        |          | W1143341   |
| 410633476011                            | 2335 10 MILE RD NE            | ROCKFORD | MI49341    |
| 411021226035                            | 2340 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 411016276004                            | 2345 POST DR NE               | BELMONT  | MI49306    |
| 411016476041                            | 2345 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 410633426015                            | 2346 ALGOMA WOODS DR          | ROCKFORD | MI49341    |
|   | NE                            |          |            |
| 411016278004                            | 2350 SAVOY ST NE              | BELMONT  | MI49306    |
| 410633277002                            | 2355 CLEAR WATER CT NE        | ROCKFORD | MI49341    |
| 410633277008                            | 2364 CLEAR WATER CT NE        | ROCKFORD | MI49341    |
| 411021226032                            | 2364 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 411016476052                            | 2367 ROGUE RIVER RD NE        | BELMONT  | MI49306    |
| 410633426007                            | 2370 HIDDEN TIMBERS           | ROCKFORD | MI49341    |
|   | TRL NE                        |          |            |

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| 411016279003 | 2374 POST DR NE               | BELMONT  | MI49306  |
| 411016476026 | 2377 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 410633426003 | 2385 HIDDEN TIMBERS<br>TRL NE | ROCKFORD | MI49341  |
| 410633277001 | 2387 CLEAR WATER CT NE        | ROCKFORD | MI49341  |
| 411010351001 | 2416 FROND ST NE              | BELMONT  | MI49306  |
| 411010351002 | 2440 FROND ST NE              | BELMONT  | MI49306  |
| 410634152001 | 2441 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634152013 | 2456 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 411015351044 | 2461 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 411010351003 | 2466 FROND ST NE              | BELMONT  | MI49306  |
| 411022101033 | 2466 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 410634152002 | 2469 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634152012 | 2478 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 411022101024 | 2480 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 410634152011 | 2500 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634152003 | 2511 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 411015352045 | 2512 LYNHURST ST NE           | BELMONT  | MI49306  |
| 410634152010 | 2540 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634152004 | 2543 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634101004 | 2550 11 MILE RD NE            | ROCKFORD | MI49341  |
| 411015302009 | 2551 LYNHURST ST NE           | BELMONT  | MI49306  |
| 411010303007 | 2555 VAN DAM DR NE            | BELMONT  | MI49306  |
| 411010303002 | 2559 VAN DAM DR NE            | BELMONT  | MI49306  |
| 411022101039 | 2560 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 410634152005 | 2561 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634152009 | 2564 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 411010353002 | 2566 VAN DAM DR NE            | BELMONT  | MI49306  |
| 410634152008 | 2580 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |
| 410634152006 | 2585 WINDING RIDGE TRL<br>NE  | ROCKFORD | MI49341  |

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| 411015302012 | 2595 LYNHURST ST NE          | BELMONT  | MI49306  |
| 410634152007 | 2600 WINDING RIDGE TRL<br>NE | ROCKFORD | MI49341  |
| 411010326002 | 2615 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411022126036 | 2626 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411010376003 | 2630 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326003 | 2635 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326021 | 2655 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326014 | 2661 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326015 | 2671 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010376009 | 2700 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010376011 | 2720 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326035 | 2727 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010376012 | 2730 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411015376069 | 2739 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411010326034 | 2741 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010376025 | 2750 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326024 | 2755 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411022127069 | 2760 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411010401006 | 2760 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411010326018 | 2775 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411015376067 | 2787 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376045 | 2789 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376044 | 2791 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411010376015 | 2800 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411015376054 | 2801 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376047 | 2803 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376032 | 2805 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376050 | 2807 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376051 | 2809 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411015376029 | 2811 ROGUE RIVER RD NE       | BELMONT  | MI49306  |
| 411010327001 | 2920 VAN DAM DR NE           | BELMONT  | MI49306  |
| 411015230025 | 2955 ROGUE BAYOU CT<br>NE    | BELMONT  | MI49306  |
| 410634227064 | 2960 ROYAL HANNAH DR<br>NE   | ROCKFORD | MI49341  |
| 410634227063 | 2963 ROYAL HANNAH DR<br>NE   | ROCKFORD | MI49341  |
| 410634227065 | 2972 ROYAL HANNAH DR<br>NE   | ROCKFORD | MI49341  |

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| 410634227062 | 2975 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
|              | NE                          |                  |                    |
| 410634227033 | 2982 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227034 | 2983 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227066 | 2988 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
|              | NE                          |                  |                    |
| 410634227032 | 2988 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227061 | 2989 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
|              | NE                          | D.O. 077770.D.D. |                    |
| 410634227035 | 2989 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227031 | 2990 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227036 | 2997 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227067 | 3000 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
| 44000400=000 | NE                          | D O GIVEO D D    | 3.57.400.44        |
| 410634227030 | 3000 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227060 | 3003 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
| 410004007000 | NE                          | DOCKEODD         | MT 400 41          |
| 410634227029 | 3012 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227068 | 3016 ROYAL HANNAH DR<br>NE  | ROCKFORD         | MI49341            |
| 410634227059 | 3019 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
| 410034227033 | NE                          | ROCKFORD         | W1149541           |
| 410634227028 | 3024 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 411010476009 | 3027 ROGUE HILL CT NE       | BELMONT          | MI49306            |
| 411010476026 | 3030 ROGUE HILL CT NE       | BELMONT          | MI49306            |
| 410634227069 | 3030 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
|              | NE                          |                  |                    |
| 410634227058 | 3035 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
|              | NE                          |                  |                    |
| 411010476020 | 3036 ROGUE HOLLOW CT        | BELMONT          | MI49306            |
|              | NE                          | D O GIVEO D D    | 3.57.400.44        |
| 410634227027 | 3038 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |
| 410634227070 | 3042 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
| 411010476025 | NE<br>3043 ROGUE HILL CT NE | BELMONT          | MI49306            |
|              | 3046 ROGUE HILL CT NE       | BELMONT          | MI49306<br>MI49306 |
| 411010476027 |                             |                  | _                  |
| 411010476028 | 3047 ROGUE HOLLOW CT<br>NE  | BELMONT          | MI49306            |
| 410634227057 | 3047 ROYAL HANNAH DR        | ROCKFORD         | MI49341            |
|              | NE                          |                  |                    |
| 410634227026 | 3050 SIR CHARLES DR NE      | ROCKFORD         | MI49341            |

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| 410634227071 | 3056 ROYAL HANNAH DR          | ROCKFORD | MI49341  |
|              | NE                            |          |          |
| 411010476007 | 3057 ROGUE HILL CT NE         | BELMONT  | MI49306  |
| 410634226002 | 3060 11 MILE RD NE            | ROCKFORD | MI49341  |
| 410634227025 | 3062 SIR CHARLES DR NE        | ROCKFORD | MI49341  |
| 411010476012 | 3066 ROGUE HILL CT NE         | BELMONT  | MI49306  |
| 410634227056 | 3069 ROYAL HANNAH DR<br>NE    | ROCKFORD | MI49341  |
| 410634227072 | 3070 ROYAL HANNAH DR<br>NE    | ROCKFORD | MI49341  |
| 411010476002 | 3071 ROGUE HOLLOW CT<br>NE    | BELMONT  | MI49306  |
| 411010476006 | 3073 ROGUE HILL CT NE         | BELMONT  | MI49306  |
| 410634227055 | 3081 ROYAL HANNAH DR<br>NE    | ROCKFORD | MI49341  |
| 411010476013 | 3086 ROGUE HILL CT NE         | BELMONT  | MI49306  |
| 411015428028 | 3093 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 410634227054 | 3099 ROYAL HANNAH DR<br>NE    | ROCKFORD | MI49341  |
| 410634226003 | 3100 11 MILE RD NE            | ROCKFORD | MI49341  |
| 410634227053 | 3115 ROYAL HANNAH DR<br>NE    | ROCKFORD | MI49341  |
| 410634227052 | 3127 ROYAL HANNAH DR<br>NE    | ROCKFORD | MI49341  |
| 410627400046 | 3155 11 MILE RD NE            | ROCKFORD | MI49341  |
| 411015429009 | 3191 ROGUE RIVER RD NE        | BELMONT  | MI49306  |
| 411002100008 | 3210 10 MILE RD NE            | ROCKFORD | MI49341  |
| 410635351007 | 3221 STONERIDGE DR NE         | ROCKFORD | MI49341  |
| 410635301015 | 3232 BENT TREE RIDGE<br>DR NE | ROCKFORD | MI49341  |
| 410635351008 | 3232 STONERIDGE DR NE         | ROCKFORD | MI49341  |
| 410635351006 | 3233 STONERIDGE DR NE         | ROCKFORD | MI49341  |
| 410635301006 | 3235 BENT TREE RIDGE<br>DR NE | ROCKFORD | MI49341  |
| 410635100020 | 3246 11 MILE RD NE            | ROCKFORD | MI49341  |
| 410635120009 | 3254 HOPEWELL CT NE           | ROCKFORD | MI49341  |
| 410635351009 | 3256 STONERIDGE DR NE         | ROCKFORD | MI49341  |
| 410635120010 | 3257 HOPEWELL CT NE           | ROCKFORD | MI49341  |
| 410635301016 | 3260 BENT TREE RIDGE<br>DR NE | ROCKFORD | MI49341  |
| 410635351005 | 3261 STONERIDGE DR NE         | ROCKFORD | MI49341  |

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|--------------|---------------------------|--------------|----------|
| 411014301009 | 3265 ANCLIFF ST NE        | ROCKFORD     | MI49341  |
| 410635120008 | 3266 HOPEWELL CT NE       | ROCKFORD     | MI49341  |
| 410635120011 | 3269 HOPEWELL CT NE       | ROCKFORD     | MI49341  |
| 410635301007 | 3275 BENT TREE RIDGE      | ROCKFORD     | MI49341  |
|              | DR NE                     |              |          |
| 410635120007 | 3278 HOPEWELL CT NE       | ROCKFORD     | MI49341  |
| 410635120012 | 3281 HOPEWELL CT NE       | ROCKFORD     | MI49341  |
| 411014301010 | 3283 ANCLIFF ST NE        | ROCKFORD     | MI49341  |
| 410635351010 | 3284 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635351004 | 3287 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635301011 | 3290 BENT TREE RIDGE      | ROCKFORD     | MI49341  |
|              | DR NE                     |              |          |
| 410635100007 | 3310 11 MILE RD NE        | ROCKFORD     | MI49341  |
| 410635351011 | 3310 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635351003 | 3313 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635301008 | 3325 BENT TREE RIDGE      | ROCKFORD     | MI49341  |
|              | DR NE                     |              |          |
| 410635301012 | 3330 BENT TREE RIDGE      | ROCKFORD     | MI49341  |
|              | DR NE                     | D 0 07770000 |          |
| 410635351012 | 3340 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635351002 | 3343 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635120019 | 3349 THORNTONS CT NE      | ROCKFORD     | MI49341  |
| 410635120022 | 3352 THORNTONS CT NE      | ROCKFORD     | MI49341  |
| 410635120021 | 3364 THORNTONS CT NE      | ROCKFORD     | MI49341  |
| 410635120020 | 3367 THORNTONS CT NE      | ROCKFORD     | MI49341  |
| 410635351013 | 3380 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410635351001 | 3383 STONERIDGE DR NE     | ROCKFORD     | MI49341  |
| 410626300027 | 3385 11 MILE RD NE        | ROCKFORD     | MI49341  |
| 410635100041 | 3426 11 MILE RD NE        | ROCKFORD     | MI49341  |
| 410635326016 | 3455 PRESTONWOOD DR<br>NE | ROCKFORD     | MI49341  |
| 410635326017 | 3470 PRESTONWOOD DR       | ROCKFORD     | MI49341  |
| 410000020017 | NE                        | 100KI OILD   | WII40041 |
| 411023100007 | 3558 ROGUE RIVER RD NE    | BELMONT      | MI49306  |
| 411002200033 | 3716 10 MILE RD NE        | ROCKFORD     | MI49341  |
| 411002200034 | 3838 10 MILE RD NE        | ROCKFORD     | MI49341  |
| 411022276006 | 5646 VERTA DR NE          | BELMONT      | MI49306  |
| 411022276005 | 5666 VERTA DR NE          | BELMONT      | MI49306  |
| 411022251029 | 5681 VERTA DR NE          | BELMONT      | MI49306  |
| 411022127019 | 5684 ETHELWIN AVE NE      | BELMONT      | MI49306  |
| 411022251036 | 5709 VERTA DR NE          | BELMONT      | MI49306  |

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|--------------|-----------------------|---------|----------|
| 411022201014 | 5766 VERTA DR NE      | BELMONT | MI49306  |
| 411022126037 | 5795 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411023100039 | 5801 NORTHLAND DR NE  | BELMONT | MI49306  |
| 411021226039 | 5815 BELMONT AVE NE   | BELMONT | MI49306  |
| 411022127054 | 5816 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411022201011 | 5820 VERTA DR NE      | BELMONT | MI49306  |
| 411022151024 | 5860 BELMONT AVE NE   | BELMONT | MI49306  |
| 411022127038 | 5864 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411022127037 | 5874 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411022251001 | 5875 VERTA DR NE      | BELMONT | MI49306  |
| 411021226041 | 5891 BELMONT AVE NE   | BELMONT | MI49306  |
| 411022127008 | 5894 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411022126033 | 5895 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411022101020 | 5920 BELMONT AVE NE   | BELMONT | MI49306  |
| 411022127007 | 5924 ETHELWIN AVE NE  | BELMONT | MI49306  |
| 411022201026 | 5960 VERTA DR NE      | BELMONT | MI49306  |
| 411015376017 | 6072 BELSHIRE AVE NE  | BELMONT | MI49306  |
| 411015351036 | 6107 IDAHO AVE NE     | BELMONT | MI49306  |
| 411015351035 | 6121 IDAHO AVE NE     | BELMONT | MI49306  |
| 411015352042 | 6126 IDAHO AVE NE     | BELMONT | MI49306  |
| 411015451025 | 6132 ROGUE LN NE      | BELMONT | MI49306  |
| 411015451024 | 6148 ROGUE LN NE      | BELMONT | MI49306  |
| 411015451005 | 6170 ROGUE LN NE      | BELMONT | MI49306  |
| 411015352017 | 6175 BELSHIRE AVE NE  | BELMONT | MI49306  |
| 411015451030 | 6194 ROGUE LN NE      | BELMONT | MI49306  |
| 411022126024 | 6211 WEST RIVER DR NE | BELMONT | MI49306  |
| 411015376034 | 6230 BELSHIRE AVE NE  | BELMONT | MI49306  |
| 411022127062 | 6267 WEST RIVER DR NE | BELMONT | MI49306  |
| 411015302015 | 6300 BELSHIRE AVE NE  | BELMONT | MI49306  |
| 411022401004 | 6334 WEST RIVER DR NE | BELMONT | MI49306  |
| 411022251018 | 6367 WEST RIVER DR NE | BELMONT | MI49306  |
| 411016301028 | 6390 SAMRICK AVE NE   | BELMONT | MI49306  |
| 411022276009 | 6419 WEST RIVER DR NE | BELMONT | MI49306  |
| 411016279011 | 6433 SULLIVAN AVE NE  | BELMONT | MI49306  |
| 411015152001 | 6480 BELMONT AVE NE   | BELMONT | MI49306  |
| 411014153010 | 6502 NUGGET AVE NE    | BELMONT | MI49306  |
| 411015151018 | 6510 BELMONT AVE NE   | BELMONT | MI49306  |
| 411014152008 | 6515 NUGGET AVE NE    | BELMONT | MI49306  |
| 411016276009 | 6517 BELMONT AVE NE   | BELMONT | MI49306  |
| 411015151017 | 6530 BELMONT AVE NE   | BELMONT | MI49306  |

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|--------------|-----------------------|-----------|----------|
| 411016276022 | 6531 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411014152007 | 6531 NUGGET AVE NE    | BELMONT   | MI49306  |
| 411015151024 | 6550 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411016276011 | 6561 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411015151023 | 6562 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411015151012 | 6566 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411023100040 | 6573 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411023100028 | 6581 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411023100015 | 6591 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411015151019 | 6594 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411023100029 | 6601 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411015201026 | 6605 PACKER DR NE     | BELMONT   | MI49306  |
| 411015120002 | 6612 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411023100035 | 6617 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411023100036 | 6621 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411023100032 | 6655 WEST RIVER DR NE | BELMONT   | MI49306  |
| 411015201024 | 6688 WILDWOOD CREEK   | BELMONT   | MI49306  |
|              | DR NE                 |           |          |
| 411015120001 | 6694 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411015201023 | 6724 WILDWOOD CREEK   | BELMONT   | MI49306  |
|              | DR NE                 |           |          |
| 411015101002 | 6725 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411015102004 | 6751 PIXLEY AVE NE    | BELMONT   | MI49306  |
| 411015201011 | 6760 PACKER DR NE     | BELMONT   | MI49306  |
| 411015201013 | 6767 PACKER DR NE     | BELMONT   | MI49306  |
| 411015201014 | 6769 PACKER DR NE     | BELMONT   | MI49306  |
| 411015201012 | 6773 PACKER DR NE     | BELMONT   | MI49306  |
| 411015201003 | 6779 PACKER DR NE     | BELMONT   | MI49306  |
| 411015201010 | 6780 PACKER DR NE     | BELMONT   | MI49306  |
| 411015126006 | 6780 PIXLEY AVE NE    | BELMONT   | MI49306  |
| 411015201009 | 6781 PACKER DR NE     | BELMONT   | MI49306  |
| 411015102003 | 6790 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411015201017 | 6790 WILDWOOD CREEK   | BELMONT   | MI49306  |
|              | DR NE                 | DDI 16037 | 3.57     |
| 411015101001 | 6795 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411010376019 | 6800 WILDWOOD CREEK   | BELMONT   | MI49306  |
| 411010000000 | DR NE                 | DEI MONT  | MI 40000 |
| 411016226002 | 6801 BELMONT AVE NE   | BELMONT   | MI49306  |
| 411010479001 | 6802 PACKER DR NE     | BELMONT   | MI49306  |
| 411010476014 | 6803 PACKER DR NE     | BELMONT   | MI49306  |
| 411009476001 | 6813 BELMONT AVE NE   | BELMONT   | MI49306  |

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|--------------|------------------------------|---------|----------|
| 411010376024 | 6814 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         |          |
| 411010376021 | 6815 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         |          |
| 411010352010 | 6817 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010352013 | 6818 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010353014 | 6818 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010352009 | 6821 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010352012 | 6824 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010376022 | 6826 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         |          |
| 411010352007 | 6830 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010377005 | 6833 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         | <b>3</b> |
| 411010351010 | 6835 BELMONT AVE NE          | BELMONT | MI49306  |
| 411015201008 | 6839 PACKER DR NE            | BELMONT | MI49306  |
| 411010377004 | 6840 WILDWOOD CREEK<br>DR NE | BELMONT | MI49306  |
| 411015201004 | 6841 PACKER DR NE            | BELMONT | MI49306  |
| 411015201005 | 6843 PACKER DR NE            | BELMONT | MI49306  |
| 411015201006 | 6845 PACKER DR NE            | BELMONT | MI49306  |
| 411015201019 | 6847 PACKER DR NE            | BELMONT | MI49306  |
| 411010353018 | 6848 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411015201020 | 6849 PACKER DR NE            | BELMONT | MI49306  |
| 411010352006 | 6858 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010353017 | 6858 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010351009 | 6859 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010377006 | 6859 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         |          |
| 411010352005 | 6868 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010377003 | 6868 WILDWOOD CREEK<br>DR NE | BELMONT | MI49306  |
| 411010353016 | 6872 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010476005 | 6875 PACKER DR NE            | BELMONT | MI49306  |
| 411010352014 | 6881 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010377002 | 6884 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         |          |
| 411010351008 | 6885 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010353015 | 6890 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010476004 | 6891 PACKER DR NE            | BELMONT | MI49306  |

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|--------------|------------------------------|---------|----------|
| 411010377001 | 6900 WILDWOOD CREEK          | BELMONT | MI49306  |
|              | DR NE                        |         |          |
| 411010476022 | 6907 PACKER DR NE            | BELMONT | MI49306  |
| 411010351007 | 6911 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010353004 | 6918 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010353003 | 6932 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010351006 | 6935 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010353020 | 6950 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010351005 | 6959 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010351004 | 6975 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411010301017 | 6990 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411010353019 | 6990 PIXLEY AVE NE           | BELMONT | MI49306  |
| 411010301022 | 6997 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411010426012 | 7000 PACKER DR NE            | BELMONT | MI49306  |
| 411010301028 | 7019 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411009429006 | 7029 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411010301026 | 7034 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411010426019 | 7035 PACKER DR NE            | BELMONT | MI49306  |
| 411009340001 | 7042 CHANDLER DR NE          | BELMONT | MI49306  |
| 411010301015 | 7045 PINE HILL DR NE         | BELMONT | MI49306  |
| 411009429003 | 7049 HERRINGTON AVE<br>NE    | BELMONT | MI49306  |
| 411010303006 | 7050 BELMONT AVE NE          | BELMONT | MI49306  |
| 411010302012 | 7060 PINE HILL DR NE         | BELMONT | MI49306  |
| 411010301014 | 7061 PINE HILL DR NE         | BELMONT | MI49306  |
| 411010303003 | 7064 BELMONT AVE NE          | BELMONT | MI49306  |
| 411009301008 | 7071 CHANDLER DR NE          | BELMONT | MI49306  |
| 411009301013 | 7077 CHANDLER DR NE          | BELMONT | MI49306  |
| 411010326038 | 7077 EMERALD FOREST<br>DR NE | BELMONT | MI49306  |
| 411009429002 | 7079 SPRUCEWOOD DR NE        | BELMONT | MI49306  |
| 411009301002 | 7081 CHANDLER DR NE          | BELMONT | MI49306  |
| 411009326010 | 7100 CHANDLER DR NE          | BELMONT | MI49306  |
| 411010301012 | 7105 PINE HILL DR NE         | BELMONT | MI49306  |
| 411010303008 | 7124 BELMONT AVE NE          | BELMONT | MI49306  |

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|--------------|---------------------------|----------|----------------------|
| 411010301011 | 7125 PINE HILL DR NE      | BELMONT  | MI49306              |
| 411010302010 | 7126 PINE HILL DR NE      | BELMONT  | MI49306              |
| 411009301003 | 7129 CHANDLER DR NE       | BELMONT  | MI49306              |
| 411010302009 | 7143 BELMONT AVE NE       | BELMONT  | MI49306              |
| 411010301027 | 7143 PINE HILL DR NE      | BELMONT  | MI49306              |
| 411010326031 | 7144 BELMONT AVE NE       | BELMONT  | MI49306              |
| 411010302002 | 7144 PINE HILL DR NE      | BELMONT  | MI49306              |
| 411010426018 | 7145 PACKER DR NE         | BELMONT  | MI49306              |
| 411010451025 | 7147 PACKER DR NE         | BELMONT  | MI49306              |
| 411010451011 | 7149 PACKER DR NE         | BELMONT  | MI49306              |
| 411010426017 | 7150 ROGUEWOOD DR NE      | BELMONT  | MI49306              |
| 411010451013 | 7153 PACKER DR NE         | BELMONT  | MI49306              |
| 411009429001 | 7157 HERRINGTON AVE       | BELMONT  | MI49306              |
|              | NE                        |          |                      |
| 411010451014 | 7157 PACKER WOODS DR      | BELMONT  | MI49306              |
|              | NE                        |          |                      |
| 411010451015 | 7161 PACKER DR NE         | BELMONT  | MI49306              |
| 411010451016 | 7165 PACKER DR NE         | BELMONT  | MI49306              |
| 411009301001 | 7169 CHANDLER DR NE       | BELMONT  | MI49306              |
| 411010326016 | 7170 BELMONT AVE NE       | BELMONT  | MI49306              |
| 411010376023 | 7171 PACKER WOODS DR      | BELMONT  | MI49306              |
|              | NE                        |          |                      |
| 411010451017 | 7173 PACKER DR NE         | BELMONT  | MI49306              |
| 411010451029 | 7177 PACKER DR NE         | BELMONT  | MI49306              |
| 411010451010 | 7181 PACKER DR NE         | BELMONT  | MI49306              |
| 411009326009 | 7184 CHANDLER DR NE       | BELMONT  | MI49306              |
| 411010326027 | 7190 BELMONT AVE NE       | BELMONT  | MI49306              |
| 411009426001 | 7193 HERRINGTON AVE       | BELMONT  | MI49306              |
| 44400010001  | NE                        | DDI MONT | D. F. T. G. C. C. C. |
| 411009100010 | 7200 CHANDLER DR NE       | BELMONT  | MI49306              |
| 411010426020 | 7205 PACKER DR NE         | BELMONT  | MI49306              |
| 411010426011 | 7208 PACKER DR NE         | BELMONT  | MI49306              |
| 411010426021 | 7209 PACKER DR NE         | BELMONT  | MI49306              |
| 411009200047 | 7210 HERRINGTON AVE       | BELMONT  | MI49306              |
| 411010402010 | NE                        | DDLMONE  | MILLOGGO             |
| 411010426010 | 7210 PACKER DR NE         | BELMONT  | MI49306              |
| 411009200013 | 7211 HERRINGTON AVE<br>NE | BELMONT  | MI49306              |
| 411010151025 | 7211 PINE HILL DR NE      | BELMONT  | MI49306              |
| 411010426005 | 7215 PACKER DR NE         | BELMONT  | MI49306              |
| 411010176021 | 7220 BELMONT AVE NE       | BELMONT  | MI49306              |

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|--------------|---------------------------|----------|----------|
| 411009200046 | 7220 HERRINGTON AVE       | BELMONT  | MI49306  |
|              | NE                        |          |          |
| 411010302001 | 7220 PINE HILL DR NE      | BELMONT  | MI49306  |
| 411010451028 | 7223 PACKER DR NE         | BELMONT  | MI49306  |
| 411010451027 | 7225 PACKER DR NE         | BELMONT  | MI49306  |
| 411010426013 | 7228 PACKER DR NE         | BELMONT  | MI49306  |
| 411010451023 | 7229 PACKER DR NE         | BELMONT  | MI49306  |
| 411010151021 | 7235 PINE HILL DR NE      | BELMONT  | MI49306  |
| 411010200024 | 7244 PACKER DR NE         | BELMONT  | MI49306  |
| 411010401005 | 7245 PACKER DR NE         | BELMONT  | MI49306  |
| 411009100005 | 7249 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411010200010 | 7250 PACKER DR NE         | BELMONT  | MI49306  |
| 411010200035 | 7256 PACKER DR NE         | BELMONT  | MI49306  |
| 411010401004 | 7259 PACKER DR NE         | BELMONT  | MI49306  |
| 411009251015 | 7299 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009100035 | 7300 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009251006 | 7318 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009200007 | 7320 HERRINGTON AVE       | BELMONT  | MI49306  |
|              | NE                        |          |          |
| 411009100039 | 7325 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009251014 | 7325 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009251007 | 7336 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009251013 | 7339 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009251012 | 7347 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009251008 | 7354 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009251011 | 7355 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009100038 | 7367 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009100044 | 7370 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009251010 | 7371 TERRIE LYNN DR NE    | BELMONT  | MI49306  |
| 411009251029 | 7373 HERRINGTON AVE       | BELMONT  | MI49306  |
|              | NE                        |          |          |
| 411011252001 | 7378 CHILDSDALE AVE NE    | ROCKFORD | MI49341  |
| 411009200036 | 7400 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009100011 | 7401 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009100045 | 7410 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009100015 | 7415 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009200040 | 7415 HERRINGTON AVE       | BELMONT  | MI49306  |
|              | NE                        |          |          |
| 411009100026 | 7419 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009100046 | 7422 CHANDLER DR NE       | BELMONT  | MI49306  |

| PPN          | Address                   | City     | Zip Code |
|--------------|---------------------------|----------|----------|
| 411009100027 | 7425 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009200029 | 7426 HERRINGTON AVE       | BELMONT  | MI49306  |
| 411000100020 | NE<br>7428 CHANDLER DR NE | BELMONT  | MI 4020C |
| 411009100030 |                           |          | MI49306  |
| 411009200039 | 7435 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200042 | 7444 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200019 | 7445 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411008200029 | 7450 PINE ISLAND DR NE    | BELMONT  | MI49306  |
| 411009200041 | 7460 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009100036 | 7480 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009100013 | 7485 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009200032 | 7500 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200025 | 7501 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009200018 | 7509 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411012101005 | 7515 JERICHO AVE NE       | ROCKFORD | MI49341  |
| 411009200014 | 7531 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411008200047 | 7546 PINE ISLAND DR NE    | BELMONT  | MI49306  |
| 411009200027 | 7550 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200022 | 7555 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009200037 | 7557 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411009200023 | 7565 CHANDLER DR NE       | BELMONT  | MI49306  |
| 411012101004 | 7575 JERICHO AVE NE       | ROCKFORD | MI49341  |
| 411009200045 | 7580 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200002 | 7585 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200044 | 7600 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200024 | 7601 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411009200043 | 7608 HERRINGTON AVE<br>NE | BELMONT  | MI49306  |
| 411001300022 | 7626 JERICHO AVE NE       | ROCKFORD | MI49341  |

| PPN          | Address                     | City    | Zip Code |
|--------------|-----------------------------|---------|----------|
| 411004477002 | 7630 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451008 | 7641 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451006 | 7649 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451007 | 7651 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451005 | 7661 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451004 | 7667 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004476004 | 7680 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004476003 | 7712 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004476002 | 7720 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451003 | 7737 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004451010 | 7747 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411005300031 | 7754 PINE ISLAND CT NE      | BELMONT | MI49306  |
| 411004451011 | 7757 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411005300041 | 7758 PINE ISLAND CT NE      | BELMONT | MI49306  |
| 411004451012 | 7777 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411005300043 | 7800 PINE ISLAND CT NE      | BELMONT | MI49306  |
| 411004426003 | 7830 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411005300044 | 7850 PINE ISLAND CT NE      | BELMONT | MI49306  |
| 411004300042 | 7853 IMPERIAL PINE DR<br>NE | BELMONT | MI49306  |
| 411004451001 | 7863 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004426002 | 7864 HERRINGTON AVE<br>NE   | BELMONT | MI49306  |
| 411004300041 | 7879 IMPERIAL PINE DR<br>NE | BELMONT | MI49306  |
| 411004300063 | 7885 IMPERIAL PINE DR<br>NE | BELMONT | MI49306  |

| PPN          | Address                   | City          | Zip Code    |
|--------------|---------------------------|---------------|-------------|
| 411004200048 | 8004 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |
| 411004200051 | 8025 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |
| 411001152002 | 8035 JERICHO AVE NE       | ROCKFORD      | MI49341     |
| 411003151009 | 8057 GRAPHIC DR NE        | BELMONT       | MI49306     |
| 411003151001 | 8069 BELMONT AVE NE       | BELMONT       | MI49306     |
| 411004200035 | 8081 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |
| 411004200046 | 8092 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |
| 411003151005 | 8093 GRAPHIC DR NE        | BELMONT       | MI49306     |
| 411004200045 | 8100 HERRINGTON AVE       | BELMONT       | MI49306     |
| 41100400001  | NE                        | DDIMONIM      | N. T. 40000 |
| 411004200021 | 8138 HERRINGTON AVE       | BELMONT       | MI49306     |
| 411002152004 | NE<br>8139 BELMONT AVE NE | BELMONT       | MI 4020C    |
| 411003152004 |                           |               | MI49306     |
| 411004200049 | 8151 HERRINGTON AVE<br>NE | BELMONT       | MI49306     |
| 411005126053 | 8170 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321     |
| 411005126058 | 8180 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321     |
| 411004200044 | 8180 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |
| 411004200030 | 8183 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |
| 411005126057 | 8193 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321     |
| 411005126051 | 8200 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321     |
| 411003152002 | 8200 GRAPHIC DR NE        | BELMONT       | MI49306     |
| 411004127008 | 8200 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321     |
| 411004127007 | 8215 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321     |
| 411002200045 | 8220 ROGUE RIDGE NE       | ROCKFORD      | MI49341     |
| 411003102010 | 8221 GRAPHIC DR NE        | BELMONT       | MI49306     |
| 411002200041 | 8221 ROGUE RIDGE NE       | ROCKFORD      | MI49341     |
| 411002200049 | 8230 ROGUE RIDGE NE       | ROCKFORD      | MI49341     |
| 411005126056 | 8239 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321     |
| 411004127006 | 8239 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321     |
| 411005126050 | 8244 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321     |
| 411004127009 | 8250 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321     |
| 411004127005 | 8255 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321     |
| 411004200029 | 8265 HERRINGTON AVE       | BELMONT       | MI49306     |
|              | NE                        |               |             |

| PPN          | Address                   | City          | Zip Code |
|--------------|---------------------------|---------------|----------|
| 411004200025 | 8273 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411004200028 | 8281 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411004127004 | 8281 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321  |
| 411002200048 | 8287 ROGUE RIDGE NE       | ROCKFORD      | MI49341  |
| 411002200039 | 8293 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411005126049 | 8300 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321  |
| 411004200040 | 8301 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411004127003 | 8303 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321  |
| 411005126014 | 8305 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411005126038 | 8306 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411002200013 | 8313 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411004200053 | 8315 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411005126048 | 8321 FRESKA LAKE DR NE    | COMSTOCK PARK | MI49321  |
| 411004200052 | 8327 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411005126018 | 8330 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411002200061 | 8331 ROGUE RIDGE NE       | ROCKFORD      | MI49341  |
| 411005126063 | 8331 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411004200020 | 8333 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411002200057 | 8339 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411002200053 | 8341 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411002200064 | 8343 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411005126059 | 8344 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411002200065 | 8345 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411004127002 | 8359 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321  |
| 411002200060 | 8365 ROGUE RIDGE NE       | ROCKFORD      | MI49341  |
| 411002200035 | 8371 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411004127001 | 8375 SQUIREWOOD DR NE     | COMSTOCK PARK | MI49321  |
| 411004200017 | 8377 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411005126064 | 8377 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411005126061 | 8384 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |
| 411004200037 | 8386 HERRINGTON AVE<br>NE | BELMONT       | MI49306  |
| 411002200059 | 8395 CHILDSDALE AVE NE    | ROCKFORD      | MI49341  |
| 411005126045 | 8396 WATEREDGE DR NE      | COMSTOCK PARK | MI49321  |

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|--------------|----------------------|---------------|----------|
| 410635353009 | 8414 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410635353001 | 8415 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410635376010 | 8420 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 411004200019 | 8431 HERRINGTON AVE  | BELMONT       | MI49306  |
|              | NE                   |               |          |
| 410633300019 | 8431 JEWELL AVE NE   | COMSTOCK PARK | MI49321  |
| 410635354004 | 8435 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410635353008 | 8440 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410635353002 | 8443 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410632400074 | 8445 AMMERMAN DR NE  | COMSTOCK PARK | MI49321  |
| 410634300009 | 8450 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635376009 | 8450 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410635354003 | 8465 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633451003 | 8470 JEWELL AVE NE   | COMSTOCK PARK | MI49321  |
| 410635353007 | 8470 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410633476014 | 8471 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635353003 | 8475 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410633476009 | 8485 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635353010 | 8496 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410635353004 | 8497 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410634300016 | 8500 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635353005 | 8500 WINDSTONE DR NE | ROCKFORD      | MI49341  |
| 410635376004 | 8500 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633476008 | 8501 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635354006 | 8515 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410635376002 | 8520 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633476005 | 8531 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635354001 | 8535 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633451006 | 8540 JEWELL AVE NE   | COMSTOCK PARK | MI49321  |
| 410635376003 | 8540 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633476004 | 8555 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635376001 | 8560 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633476002 | 8565 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410633451001 | 8570 JEWELL AVE NE   | COMSTOCK PARK | MI49321  |
| 410633476003 | 8585 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410633403002 | 8594 JEWELL AVE NE   | COMSTOCK PARK | MI49321  |
| 410635326015 | 8600 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410634300034 | 8620 ALGOMA AVE NE   | ROCKFORD      | MI49341  |
| 410635326014 | 8620 WOLVEN AVE NE   | ROCKFORD      | MI49341  |
| 410633426020 | 8637 ALGOMA AVE NE   | ROCKFORD      | MI49341  |

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|--------------|---------------------|---------------|----------|
| 410633426019 | 8641 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300033 | 8650 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635301009 | 8655 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410633426011 | 8665 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300027 | 8668 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300031 | 8670 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635326009 | 8670 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410634300030 | 8674 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635301003 | 8685 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410634300024 | 8686 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635326008 | 8686 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410635301002 | 8697 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410634300036 | 8700 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410633426018 | 8701 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300035 | 8708 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410633403001 | 8708 JEWELL AVE NE  | COMSTOCK PARK | MI49321  |
| 410634300021 | 8714 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300029 | 8720 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300028 | 8726 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635326018 | 8730 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410635301017 | 8767 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410633401001 | 8770 JEWELL AVE NE  | COMSTOCK PARK | MI49321  |
| 410634300014 | 8774 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410634300015 | 8780 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410633426001 | 8787 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635100045 | 8787 WOLVEN AVE NE  | ROCKFORD      | MI49341  |
| 410634153001 | 8824 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410633278005 | 8825 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410633100079 | 8825 JEWELL AVE NE  | COMSTOCK PARK | MI49321  |
| 410633100080 | 8827 JEWELL AVE NE  | COMSTOCK PARK | MI49321  |
| 410633251002 | 8844 JEWELL AVE NE  | COMSTOCK PARK | MI49321  |
| 410635100038 | 8850 ELSTNER AVE NE | ROCKFORD      | MI49341  |
| 410633278002 | 8851 ALGOMA AVE NE  | ROCKFORD      | MI49341  |
| 410635100029 | 8870 ELSTNER AVE NE | ROCKFORD      | MI49341  |
| 410633100016 | 8875 JEWELL AVE NE  | COMSTOCK PARK | MI49321  |
| 410635100028 | 8894 ELSTNER AVE NE | ROCKFORD      | MI49341  |
| 410634227042 | 8900 LADY LAUREN DR | ROCKFORD      | MI49341  |
|              | NE                  | Do directo    | 7.55     |
| 410634227043 | 8903 LADY LAUREN DR | ROCKFORD      | MI49341  |
|              | NE                  |               |          |

| PPN          | Address                   | City          | Zip Code |
|--------------|---------------------------|---------------|----------|
| 410633278001 | 8905 ALGOMA AVE NE        | ROCKFORD      | MI49341  |
| 410635120025 | 8910 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410635120001 | 8911 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410634227041 | 8914 LADY LAUREN DR       | ROCKFORD      | MI49341  |
|              | NE                        |               |          |
| 410633100029 | 8915 JEWELL AVE NE        | COMSTOCK PARK | MI49321  |
| 410634227045 | 8919 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410635100027 | 8922 ELSTNER AVE NE       | ROCKFORD      | MI49341  |
| 410635120024 | 8922 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410634227040 | 8922 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410634227046 | 8927 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410633251004 | 8928 JEWELL AVE NE        | COMSTOCK PARK | MI49321  |
| 410635120003 | 8929 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410634227039 | 8930 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410635120023 | 8934 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410634227047 | 8935 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410635120004 | 8937 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410633251007 | 8940 JEWELL AVE NE        | COMSTOCK PARK | MI49321  |
| 410634227048 | 8941 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410634227038 | 8942 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410635100015 | 8944 WOLVEN AVE NE        | ROCKFORD      | MI49341  |
| 410634227049 | 8947 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410635100026 | 8948 ELSTNER AVE NE       | ROCKFORD      | MI49341  |
| 410635120005 | 8951 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410634227037 | 8954 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410633100035 | 8955 JEWELL AVE NE        | COMSTOCK PARK | MI49321  |
| 410634227050 | 8955 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410634227051 | 8961 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341  |
| 410635100025 | 8966 ELSTNER AVE NE       | ROCKFORD      | MI49341  |
| 410635120006 | 8973 HOPEWELL DR NE       | ROCKFORD      | MI49341  |
| 410633251006 | 8980 JEWELL AVE NE        | COMSTOCK PARK | MI49321  |

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|--------------------|---------------------|------------|--------------------|
| 410635100036       | 8988 ELSTNER AVE NE | ROCKFORD   | MI49341            |
| 410633276002       | 8989 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410634151001       | 9000 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633201008       | 9000 JEWELL AVE NE  | ROCKFORD   | MI49341            |
| 410633276001       | 9001 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633100076       | 9011 JEWELL AVE NE  | ROCKFORD   | MI49341            |
| 410633226018       | 9013 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410635100035       | 9014 ELSTNER AVE NE | ROCKFORD   | MI49341            |
| 410634101005       | 9024 11 MILE RD NE  | ROCKFORD   | MI49341            |
| 410634228005       | 9025 ELSTNER AVE NE | ROCKFORD   | MI49341            |
| 410635100034       | 9030 ELSTNER AVE NE | ROCKFORD   | MI49341            |
| 410633226017       | 9035 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226016       | 9039 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226010       | 9041 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633100022       | 9043 JEWELL AVE NE  | ROCKFORD   | MI49341            |
| 410633226009       | 9045 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226015       | 9047 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410634228004       | 9047 ELSTNER AVE NE | ROCKFORD   | MI49341            |
| 410633226008       | 9049 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410635120018       | 9050 HOPEWELL DR NE | ROCKFORD   | MI49341            |
| 410633226012       | 9051 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226013       | 9053 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226006       | 9057 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226007       | 9059 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410634101002       | 9060 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410635100033       | 9062 ELSTNER AVE NE | ROCKFORD   | MI49341            |
| 410633226014       | 9063 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410633226011       | 9065 ALGOMA AVE NE  | ROCKFORD   | MI49341            |
| 410635120017       | 9066 HOPEWELL DR NE | ROCKFORD   | MI49341            |
| 410635120013       | 9069 HOPEWELL DR NE | ROCKFORD   | MI49341            |
| 410634227024       | 9069 LADY LAUREN DR | ROCKFORD   | MI49341            |
|                    | NE                  |            |                    |
| 410633201006       | 9070 JEWELL AVE NE  | ROCKFORD   | MI49341            |
| 410634227001       | 9070 LADY LAUREN DR | ROCKFORD   | MI49341            |
|                    | NE                  |            |                    |
| 410634227023       | 9075 LADY LAUREN DR | ROCKFORD   | MI49341            |
| 44.000 100 700 700 | NE                  | DO CHECODO | 3.61.000.00        |
| 410634227002       | 9078 LADY LAUREN DR | ROCKFORD   | MI49341            |
| 41000#100010       | NE                  | DOOKBODD   | <b>N</b> IT 400 44 |
| 410635120016       | 9080 HOPEWELL DR NE | ROCKFORD   | MI49341            |
| 410634228003       | 9089 ELSTNER AVE NE | ROCKFORD   | MI49341            |

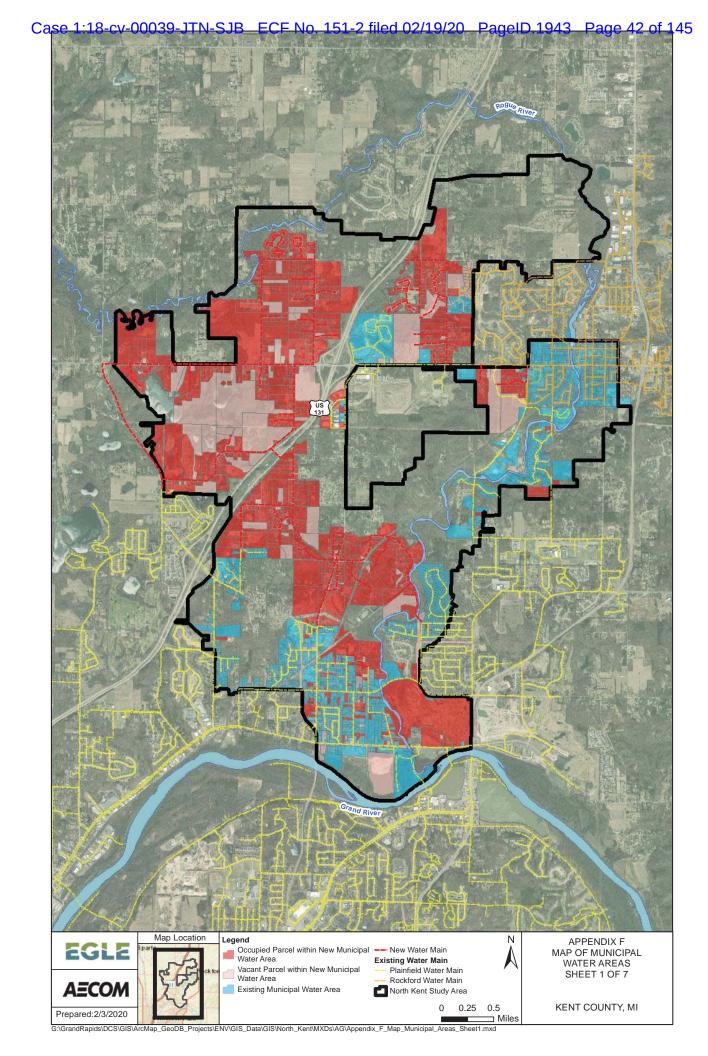
| PPN          | Address                   | City          | Zip Code  |
|--------------|---------------------------|---------------|-----------|
| 410635100032 | 9090 ELSTNER AVE NE       | ROCKFORD      | MI49341   |
| 410633201005 | 9090 JEWELL AVE NE        | ROCKFORD      | MI49341   |
| 410634227003 | 9090 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |
| 410635120015 | 9094 HOPEWELL DR NE       | ROCKFORD      | MI49341   |
| 410635120014 | 9099 HOPEWELL DR NE       | ROCKFORD      | MI49341   |
| 410633100011 | 9101 JEWELL AVE NE        | ROCKFORD      | MI49341   |
| 410634227004 | 9102 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |
| 410634227022 | 9107 LADY LAUREN DR       | ROCKFORD      | MI49341   |
| 41000400500  | NE                        | DO CIVIDODO   | NT 400 41 |
| 410634227005 | 9108 LADY LAUREN DR       | ROCKFORD      | MI49341   |
| 410634227006 | NE<br>9114 LADY LAUREN DR | ROCKFORD      | MI49341   |
| 410054227000 | NE                        | NOCKFORD      | W1149541  |
| 410633226020 | 9119 ALGOMA AVE NE        | ROCKFORD      | MI49341   |
| 410634227007 | 9120 LADY LAUREN DR       | ROCKFORD      | MI49341   |
| 110001221001 | NE                        |               | 11110011  |
| 410635100031 | 9122 ELSTNER AVE NE       | ROCKFORD      | MI49341   |
| 410634227008 | 9128 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |
| 410634227009 | 9140 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |
| 410634228002 | 9145 ELSTNER AVE NE       | ROCKFORD      | MI49341   |
| 410632300019 | 915 10 MILE RD NE         | COMSTOCK PARK | MI49321   |
| 410633201001 | 9150 JEWELL AVE NE        | ROCKFORD      | MI49341   |
| 410633100021 | 9151 JEWELL AVE NE        | ROCKFORD      | MI49341   |
| 410634227010 | 9152 LADY LAUREN DR       | ROCKFORD      | MI49341   |
| 410004007001 | NE OLEGIA DIVI ALIDENI DE | DOCKEODD      | MI 400 41 |
| 410634227021 | 9155 LADY LAUREN DR<br>NE | ROCKFORD      | MI49341   |
| 410634227011 | 9164 LADY LAUREN DR       | ROCKFORD      | MI49341   |
| 410054227011 | NE                        | ROCKFORD      | W1143541  |
| 410634228001 | 9165 ELSTNER AVE NE       | ROCKFORD      | MI49341   |
| 410633100033 | 9165 JEWELL AVE NE        | ROCKFORD      | MI49341   |
| 410634227020 | 9169 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |
| 410633100032 | 9171 JEWELL AVE NE        | ROCKFORD      | MI49341   |
| 410634227019 | 9175 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |
| 410634227012 | 9178 LADY LAUREN DR       | ROCKFORD      | MI49341   |
|              | NE                        |               |           |

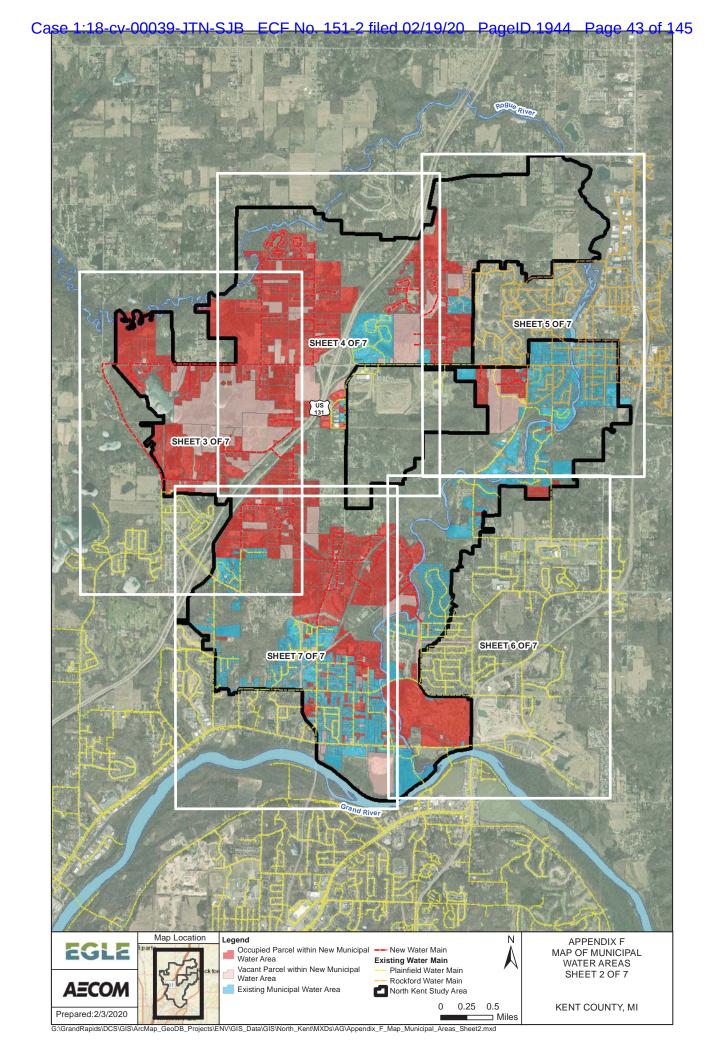
| PPN          | Address                   | City       | Zip Code  |
|--------------|---------------------------|------------|-----------|
| 410634227018 | 9187 LADY LAUREN DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |
| 410634227013 | 9190 LADY LAUREN DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |
| 410634227017 | 9193 LADY LAUREN DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |
| 410634227016 | 9195 LADY LAUREN DR       | ROCKFORD   | MI49341   |
| 410004007015 | NE OOOO LADWI ALIDEN DD   | DOCKEODD   | MT 400 41 |
| 410634227015 | 9200 LADY LAUREN DR<br>NE | ROCKFORD   | MI49341   |
| 410634227014 | 9202 LADY LAUREN DR       | ROCKFORD   | MI49341   |
| 410004227014 | NE                        | TOOKI OILD | WII43541  |
| 410628452001 | 9207 BOOTH BAY CT NE      | ROCKFORD   | MI49341   |
| 410628452029 | 9210 SAG HARBOR CT NE     | ROCKFORD   | MI49341   |
| 410628452002 | 9215 BOOTH BAY CT NE      | ROCKFORD   | MI49341   |
| 410628452028 | 9218 SAG HARBOR CT NE     | ROCKFORD   | MI49341   |
| 410628476004 | 9220 GARDEN GATE DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |
| 410628476020 | 9223 GARDEN GATE DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |
| 410628452027 | 9226 SAG HARBOR CT NE     | ROCKFORD   | MI49341   |
| 410628452003 | 9227 BOOTH BAY CT NE      | ROCKFORD   | MI49341   |
| 410628452026 | 9234 SAG HARBOR CT NE     | ROCKFORD   | MI49341   |
| 410628476021 | 9235 ALGOMA AVE NE        | ROCKFORD   | MI49341   |
| 410628452004 | 9239 BOOTH BAY CT NE      | ROCKFORD   | MI49341   |
| 410628452025 | 9242 SAG HARBOR CT NE     | ROCKFORD   | MI49341   |
| 410628477004 | 9247 ALGOMA AVE NE        | ROCKFORD   | MI49341   |
| 410628476019 | 9249 GARDEN GATE DR       | ROCKFORD   | MI49341   |
| 410000470005 | NE<br>9250 GARDEN GATE DR | ROCKFORD   | MT 409 41 |
| 410628476005 | NE                        | NOCKFORD   | MI49341   |
| 410628452005 | 9253 NANTUCKET CT NE      | ROCKFORD   | MI49341   |
| 410628452006 | 9261 NANTUCKET CT NE      | ROCKFORD   | MI49341   |
| 410628452024 | 9262 NAGSHEAD CT NE       | ROCKFORD   | MI49341   |
| 410628452007 | 9269 NANTUCKET CT NE      | ROCKFORD   | MI49341   |
| 410628452023 | 9270 NAGSHEAD CT NE       | ROCKFORD   | MI49341   |
| 410628452008 | 9277 NANTUCKET CT NE      | ROCKFORD   | MI49341   |
| 410628476006 | 9278 GARDEN GATE DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |
| 410628452022 | 9278 NAGSHEAD CT NE       | ROCKFORD   | MI49341   |
| 410628476018 | 9285 GARDEN GATE DR       | ROCKFORD   | MI49341   |
|              | NE                        |            |           |

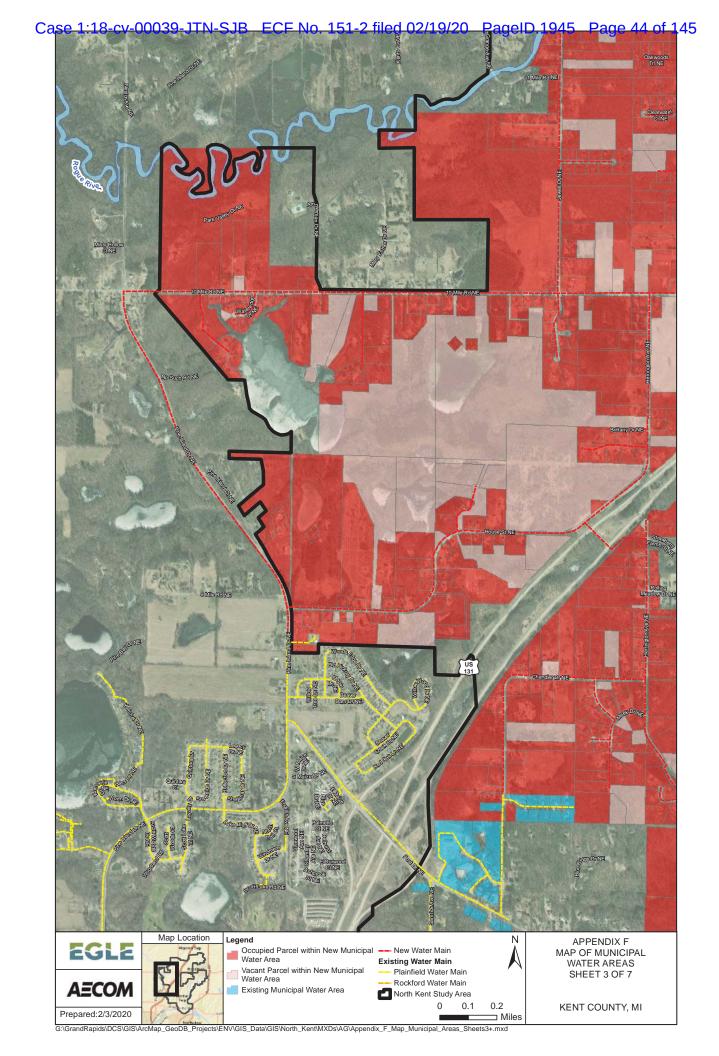
| PPN          | Address                   | City          | Zip Code |
|--------------|---------------------------|---------------|----------|
| 410628452009 | 9285 NANTUCKET CT NE      | ROCKFORD      | MI49341  |
| 410628452021 | 9286 NAGSHEAD CT NE       | ROCKFORD      | MI49341  |
| 410628452020 | 9294 NAGSHEAD CT NE       | ROCKFORD      | MI49341  |
| 410628452010 | 9299 BAY HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628476007 | 9300 GARDEN GATE CT NE    | ROCKFORD      | MI49341  |
| 410628476017 | 9305 GARDEN GATE DR<br>NE | ROCKFORD      | MI49341  |
| 410628452011 | 9311 BAY HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410627400045 | 9311 ELSTNER AVE NE       | ROCKFORD      | MI49341  |
| 410628452019 | 9314 OLD HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628476016 | 9321 GARDEN GATE DR<br>NE | ROCKFORD      | MI49341  |
| 410628452018 | 9322 OLD HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628452012 | 9323 BAY HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628476008 | 9330 GARDEN GATE CT NE    | ROCKFORD      | MI49341  |
| 410628452013 | 9331 BAY HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628476012 | 9332 GARDEN GATE DR<br>NE | ROCKFORD      | MI49341  |
| 410628476011 | 9333 GARDEN GATE CT NE    | ROCKFORD      | MI49341  |
| 410628452030 | 9338 OLD HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628452014 | 9339 BAY HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628476015 | 9343 GARDEN GATE DR<br>NE | ROCKFORD      | MI49341  |
| 410628452015 | 9344 OLD HARBOR CT NE     | ROCKFORD      | MI49341  |
| 410628476009 | 9352 GARDEN GATE CT NE    | ROCKFORD      | MI49341  |
| 410628476010 | 9355 GARDEN GATE CT NE    | ROCKFORD      | MI49341  |
| 410628476014 | 9369 GARDEN GATE DR<br>NE | ROCKFORD      | MI49341  |
| 410628476013 | 9370 GARDEN GATE DR<br>NE | ROCKFORD      | MI49341  |
| 411005126002 | 978 10 MILE RD NE         | COMSTOCK PARK | MI49321  |
| 411005126003 | 992 10 MILE RD NE         | COMSTOCK PARK | MI49321  |
| 410632300018 | 993 10 MILE RD NE         | COMSTOCK PARK | MI49321  |
|              |                           |               |          |
|              |                           |               |          |
|              |                           |               |          |
|              |                           |               |          |
|              |                           |               |          |
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|              |                           |               |          |
|              |                           |               |          |

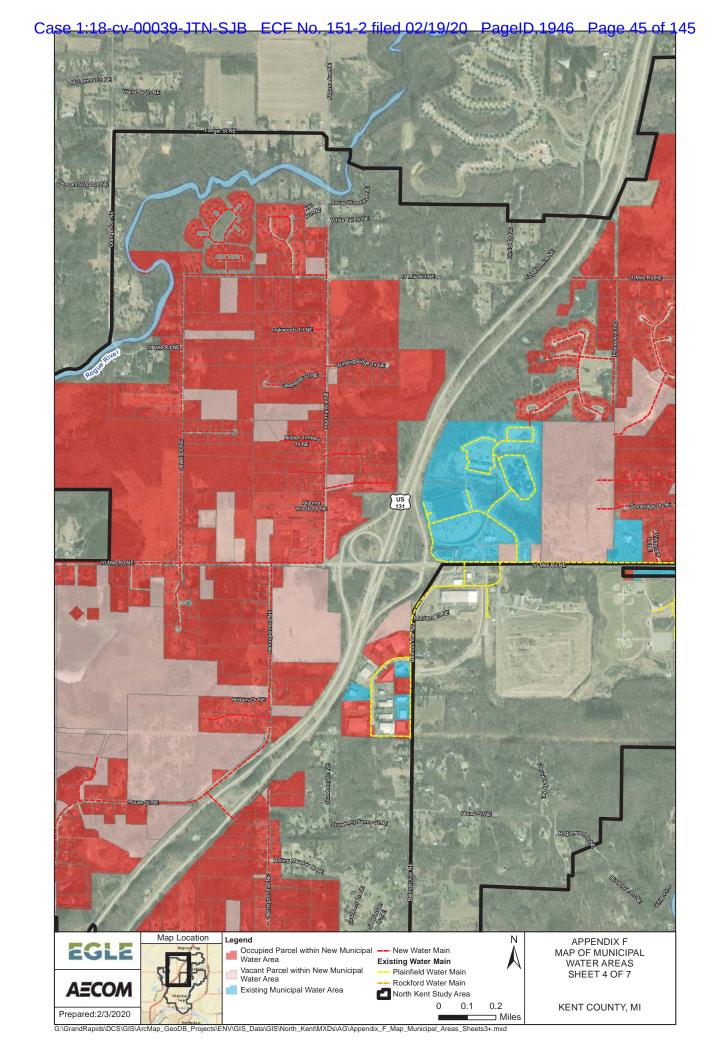
# Case 1:18-cv-00039-JTN-SJB ECF No. 151-2 filed 02/19/20 PageID.1942 Page 41 of 145

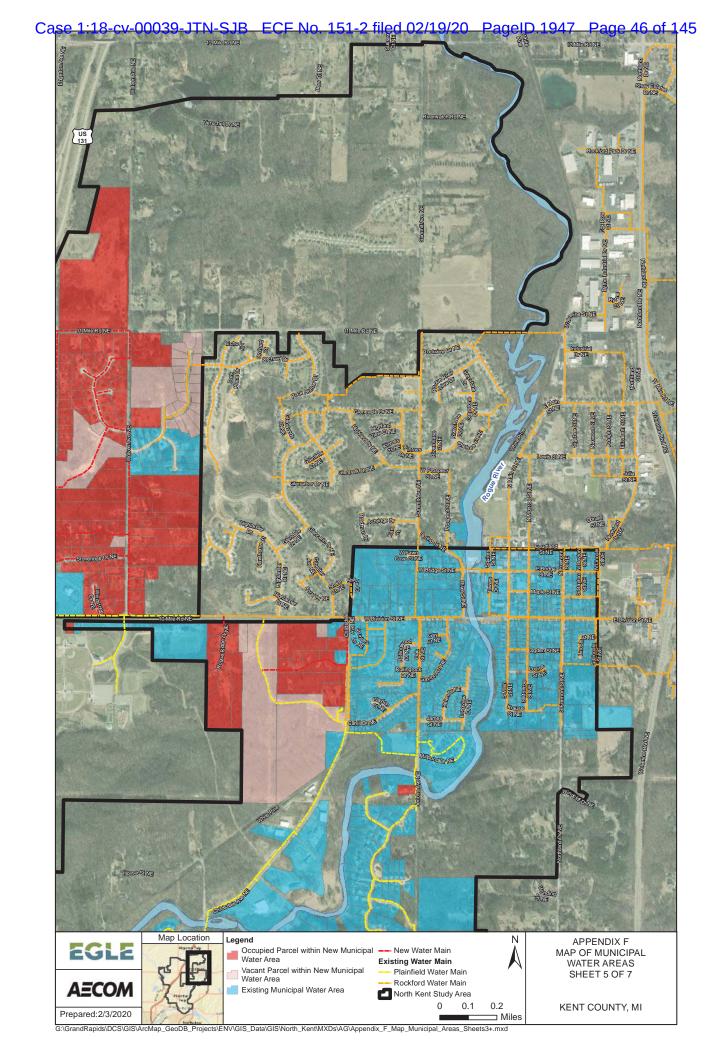
| PPN | Address | City | Zip Code |
|-----|---------|------|----------|
|     |         |      |          |
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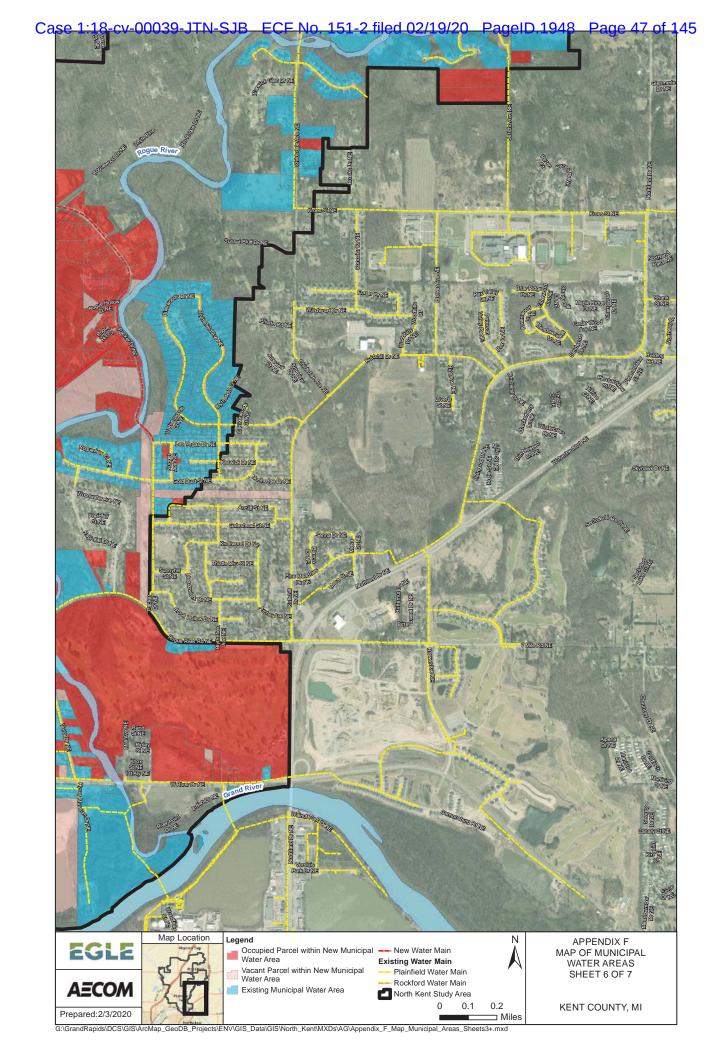


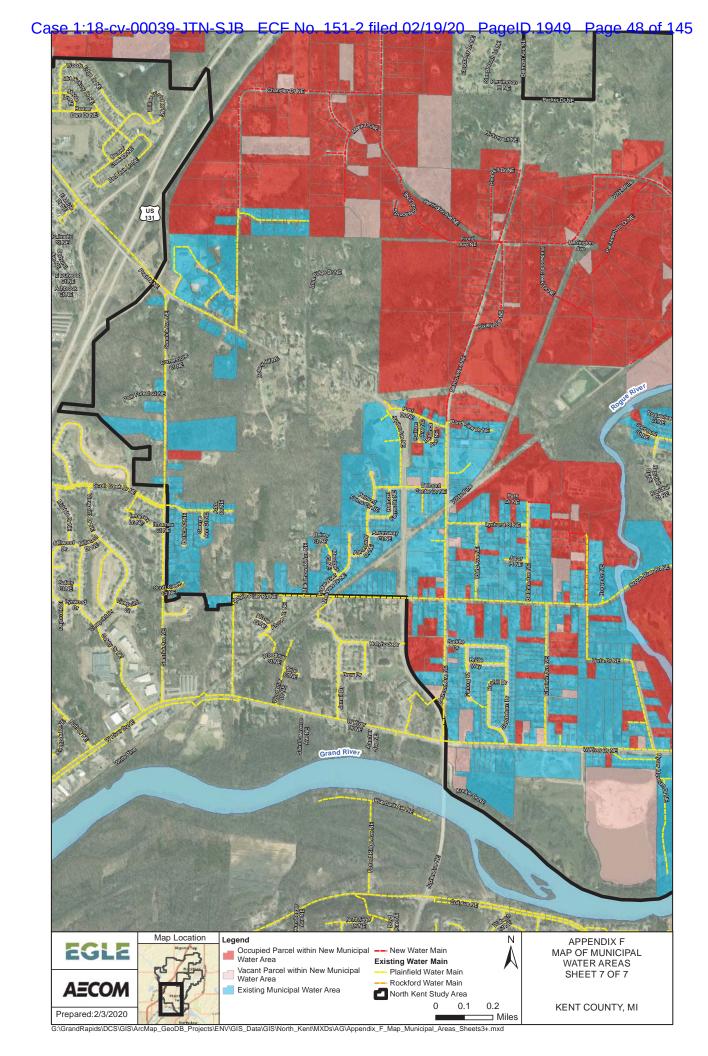














# APPENDIX D Sample Letters – Filter Cessation Notifications



ENVIRONMENTAL

ECOLOGICAL

CONSTRUCTION MANAGEMENT

The Widdicomb Building 601 Fifth Street NW Suite 102 Grand Rapids, MI 49504 T: 616.956.6123 F: 616.288.3327



XXXXX

Mr./Mrs. xxx Street Belmont, MI xxxxx

Re: Changes to Whole House Filter Sampling and Maintenance

Dear [ ],

We are writing on behalf of Wolverine World Wide, Inc. (WWW). As you may have heard, on February 19, 2020, U.S. District Judge Janet T. Neff approved a Consent Decree reached among WWW, the State of Michigan, Plainfield Charter Township, and Algoma Township<sup>1</sup>. The Consent Decree represents a comprehensive PFAS action plan, and outlines and approves changes to the operation and maintenance (O&M) schedule for the whole house filter (WHF) WWW provided to you.

These O&M changes were approved because the remediation investigations in the North Kent Study Area have better defined the extent of PFAS, and because your residence has not had a detection of PFOA+PFOS higher than 10 ppt. Given this data, WWW and the State have agreed, and the Court has approved in the Consent Decree, that WWW will no longer provide sampling or O&M for your WHF.

You may choose to retain the WHF with future O&M at your expense, or have it removed. Please indicate your preference on the attached form and send to R&W/GZA by April 17, 2020. If your form is not returned to R&W/GZA by April 17, 2020, we will assume that you would like to retain the WHF with the future O&M at your expense. You may mail the form or send it to house.street@gza.com.

If you choose to retain the WHF, Culligan will contact you to coordinate setting up your account and scheduling the O&M. If you choose to have the WHF removed, Culligan will contact you to schedule the removal.

Please feel free to call our office (616-956-6123) or the State of Michigan/EGLE (616-356-0226) if you have any questions.

Very truly yours,

Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Loretta J. Powers Senior Project Manager Mark Westra

Principal

cc: Karen Vorce, EGLE

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## **Whole House Filter O&M Selection Form**

### Please Return this Form by xxxxx

| Name:    |  |   |
|----------|--|---|
| Address  | ::   |   |
|          | ted in the letter dated xxxxx, you have two options redicate how you wish to proceed.  | egarding your whole house filter (WHF). |
| r        | would like to retain the WHF system in my residence. responsible for the operation and maintenance of the solonger be responsible for any operation, maintenance | system. Wolverine World Wide, Inc. will |
| 1        | would like the WHF removed from my residence.  |   |
| Signatur | re:  | Date:                                   |

You may return this completed form to R&W/GZA at House.Street@gza.com or to 601 Fifth Street NW, Suite 102, Grand Rapids, MI 49504



GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION MANAGEMENT

The Widdicomb Building 601 Fifth Street NW Suite 102 Grand Rapids, MI 49504 T: 616.956.6123 F: 616.288.3327 www.rosewestra.com



XXXXX

Mr./Mrs. xxx Street Belmont, MI xxxxx

Re: Changes to Point-of-Use Filter Maintenance

Dear [ ],

We are writing on behalf of Wolverine World Wide, Inc. (WWW). As you may have heard, on February 19, 2020, U.S. District Judge Janet T. Neff approved a Consent Decree among WWW, the State of Michigan, Plainfield Charter Township, and Algoma Township<sup>1</sup>. The Consent Decree represents a comprehensive PFAS action plan, and outlines and approves several changes to the operation and maintenance (O&M) schedule for the NSF-certified point-of-use (POU) filter(s) WWW provided to you.

The following changes are being implemented for the POU filter(s) installed at your residence:

- Since your residence has not had a PFOS+PFOA concentration higher than 10 ppt, WWW will no longer provide the O&M for your POU filter(s).
- You may choose to have the POU filter(s) removed or retain it, with all future operation and maintenance at your expense. Please indicate your preference on the attached form and send to R&W/GZA by April 17, 2020. You may mail it or send it to house.street@gza.com. If you choose to have the POU system removed, R&W/GZA will contact you directly to schedule the removal by a licensed plumber. If you do not respond by April 17, the filter will remain in your home at your expense for any O&M.

Please feel free to call our office (616-956-6123) or EGLE (616-356-0226) if you have any questions.

Very truly yours,

Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Loretta J. Powers Senior Project Manager

cc: Karen Vorce, EGLE

Mark Westra Principal

 $j: \ 62000 \ 629xx \ 62961.xx - www \ rap-wp \ 62961.60 - filter \ plan \ and \ o\&m \ cd \ notice \ letters \ form \ letters \ pous \ pou-fa-under 10ppt-f03302020.docx$ 



<sup>&</sup>lt;sup>1</sup> Visit <u>www.wearewolverine.com</u> for complete details and a link to the full text of the Consent Decree.

# **POU Filter O&M Selection Form**

Please Return this Form by xxxxx.

| Name   | :  |
|--------|--|
| Addre  | ss:  |
|        | ated in the letter dated xxxxx, you have two options regarding your POU filter(s). Please indicate u wish to proceed.  |
|        | I would like to retain the POU filter(s) in my residence. I understand that going forward, I will be responsible for the operation and maintenance of the filter(s). Wolverine World Wide, Inc. will no longer retain responsibility for any operation, maintenance, services, or leaks associated with this system. |
|        | I would like the POU filter(s) removed from my residence.  |
| Signat | rure: Date:  |

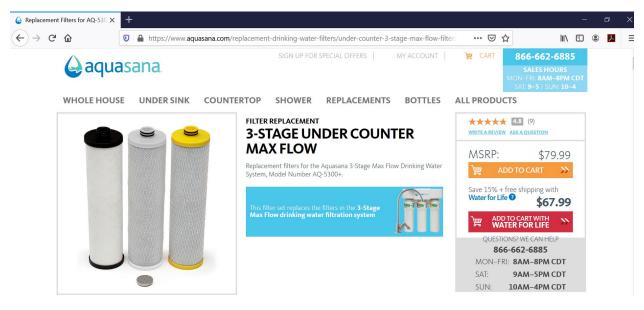
You may return this form to R&W/GZA at House.Street@gza.com or to 601 Fifth Street NW, Suite 102, Grand Rapids, MI 49504

### **POU Filter O&M Retention Form**



If you would like to retain your POU filter, please contact Aquasana directly (866-662-6885) to order the replacement cartridges for your AQ—5300+ under kitchen sink filter.

Aquasana's website - <u>www.Aquasana.com</u>



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EOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION MANAGEMENT

The Widdicomb Building 601 Fifth Street NW Suite 102 Grand Rapids, MI 49504 T: 616.956.6123 F: 616.288.3327 www.rosewestra.com



XXXXX

Mr./Mrs. xxx Street Belmont, MI 49306

Re: Changes to Whole House and Point-of-Use Filtration Operation and Maintenance

Dear [ ],

We are writing on behalf of Wolverine World Wide, Inc. (WWW). As you have likely heard, on February 19, 2020, U.S. District Judge Janet T. Neff approved a Consent Decree reached among WWW, the State of Michigan, Plainfield Charter Township, and Algoma Township<sup>1</sup>. The Consent Decree represents a comprehensive PFAS action plan, and outlines and approves changes to the operation and maintenance (O&M) for the whole house filter (WHF) and/or Point-of-Use (POU; sink) filter(s) WWW provided to you.

These O&M changes were approved because the remediation investigations in the North Kent Study Area have better defined the extent of PFAS, and because residences like yours will be connected to municipal water. According to the Plainfield Township construction schedule, it is anticipated that the municipal water line will be available to your home in the near future. Given this data, WWW and the State have agreed, and the Court has approved in the Consent Decree, once the municipal service line is installed and ready for connection that WWW will no longer provide O&M for your WHF and/or POU(s). Likewise, sampling and monitoring of your WHF will cease.

You may choose to retain the WHF and/or POU(s) with future O&M at your expense, or have it removed. Please indicate your preference on the attached form and send to R&W/GZA at your earliest convenience. If your form is not returned to R&W/GZA by the time of your municipal connection, we will assume that you would like to retain the filtration system(s) with the future O&M at your expense. You may mail the form or email it to <a href="mailto:house.street@gza.com">house.street@gza.com</a>.

If you choose to retain the WHF, Culligan will contact you to coordinate setting up your account and scheduling the O&M. If you choose to have the WHF removed, Culligan will contact you to schedule the removal. If you have questions about the long-term O&M and costs, you may contact Kaat's Culligan (616-791-7150).

If you choose to retain the Aquasana POU, you may purchase replacement cartridges at: <a href="https://www.aquasana.com">https://www.aquasana.com</a>.

If you choose to have the POU removed, R&W/GZA will coordinate with a licensed plumber to schedule removal of the system.

Please feel free to call our office (616-956-6123) or the State of Michigan/EGLE (616-356-0226) if you have any questions.

Very truly yours,

Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Loretta J. Powers, CHMM Associate Principal

Mark Westra Principal

cc: Leah Gies, EGLE

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<sup>&</sup>lt;sup>1</sup> Visit <u>www.wearewolverine.com</u> for complete details and a link to the full text of the Consent Decree.

## Whole House and Point-of-Use Filter O&M Selection Form

Please Return this Form at Your Earliest Convenience.

| Name:        |   |  |
|--------------|---|--|
| Address:     |   |  |
|              | in the letter dated xxxxx, you have two options regarding your whole house filter (WHF) and (POU; sink) filter(s). Please indicate how you wish to proceed.   |  |
| w<br>th<br>m | would like to <b>retain</b> the <b>WHF</b> system in my residence. I understand that once municipal ater is available to my property, I will be responsible for the operation and maintenance of me system. Wolverine World Wide, Inc. will no longer be responsible for any operation, maintenance, or services associated with this system. |  |
|              | would like the <b>WHF removed</b> from my residence. ot Applicable, I do not have a WHF.  |  |
|              |   |  |
| w<br>th<br>m | would like to <b>retain</b> the <b>POU</b> filter(s) in my residence. I understand that once municipal ater is available to my property, I will be responsible for the operation and maintenance of system. Wolverine World Wide, Inc. will no longer be responsible for any operation, saintenance, or services associated with this system. |  |
| 1            | would like the <b>POU</b> filter(s) <b>removed</b> from my residence.   |  |
| N            | ot Applicable, I do not have a POU filter.  |  |
| Signature:   | Date:   |  |

You may return this completed form to R&W/GZA at House.Street@gza.com or to 601 Fifth Street NW, Suite 102, Grand Rapids, MI 49504



GZA GeoEnvironmental, Inc.