## Nyack Water Department

The New York State recommended treatment technology for the removal of per- and polyfluorinated substances is Granular Activated Carbon (GAC). As such, the Village has selected this as their treatment method. Equipment for GAC has a long lead time. These estimates are based on immediately receiving approval for submission of purchase orders for this equipment. Under a best-case scenario, this is a projected timeline to design, construct, and complete the project;

| <u>Milestone</u><br>Pre-Design  | <b>Duration</b>                                      | Projected Finish Date   |
|---|--|---|
| Deferral Application<br>Preparation of Report<br>Health Department Approval<br><b>Detailed Design</b>         | 4 Weeks<br>4 Weeks<br>6 Weeks                        | December 2020 (Complete)<br>January 2021 (Complete)<br>March 2021 (Awaiting Approval) |
| Field work, survey, soil borings<br>Design<br>Health Department Approval<br><b>Bidding Process</b>            | 4 Weeks<br>20 Weeks<br>6 Weeks                       | April 2021 (Complete)<br>September 2021<br>October 2021                               |
| Advertise Period<br>Award<br>Contract Approval<br>Construction<br>Start-Up, Testing / Completed Work Approval | 4 Weeks<br>2 Weeks<br>4 Weeks<br>60 Weeks<br>4 Weeks | November 2021<br>December 2021<br>January 2022<br>March 2023<br>April 2023            |

The initial project schedule shown above has been adjusted to allow for the longer than expected review period. Included on the following page is a project schedule which outlines the updated schedule overlain by the baseline schedule above. Detailed design of the treatment system cannot begin until approval and/or review of the basis of design by the NYSDOH. However, the engineer has expedited the detailed design by performing the site survey, field work, and soil borings to allow for immediate commencement of design upon NYSDOH approval.

| NYAK2001 - PFAS Treatment                            |             |             |      |   |           |           |          |              |       |     |           | Original Schedule Actual Work Remaining Work 🔶 🔶 Milestone 🕶 🐨 summary |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
|--|-------------|-------------|------|---|-----------|-----------|----------|--------------|-------|-----|-----------|--|----------|-------------|--------------|------------|----------------|-----------|--------------|---------|-------------|-----------|-----------|-------------|------------|------------|------------|---|-------------|------------|-------------|-------------|------------|----------|-----|-----|
| Activity Name  | Start       | Finish      | 2020 |   |           |           |          |              |       |     |           | 2021   |          |             |              |            |                |           |              |         |             | 2022      |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
|  |             |             | Feb  | Mar   | r A       | Apr       | Мау      | Jun          | Jul   | Aug | Sep       | Oct  | Nov      | Dec         | Jan          | Feb        | Mar            | Apr       | May          |         | Jun         | ul        | Aug       | Sep         | Oct        | Nov        | / Dec      | с | Jan         | Feb        | Mar         | Apr         | May        | Jun      | Jul | Aug |
| NYAK2001 - PFAS Treatment                            | 03-Mar-20 A | 18-Jul-23   |      | •   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Nyack 2020 Quarter 2 Water Quality Sampling          | 03-Mar-20 A |             |      | Nyac  | ck 2020 ( | Quarter 2 | Water Qu | uality Sampl | oling |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| NYS Notice of Adoption                               | 26-Aug-20 A |             | _    |   |           |           |          |              |       | ♦   | NYS Notic | e of Adoptio   | n        |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Nyack 2020 Quarter 3 Water Quality Sampling          | 14-Sep-20 A |             | _    | <ul> <li>Nyack 2020 Quarter 3 Water Quality Sampling</li> <li>Engineering Report, Deferral Submission &amp; Approval</li> <li>Nyack 2020 Quarter 4 Water Quality Sampling (1 of 2)</li> </ul> |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Engineering Report, Deferral Submission & Approval   | 08-Oct-20A  | 23-Feb-21 A | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Nyack 2020 Quarter 4 Water Quality Sampling (1 of 2) | 13-Oct-20A  |             | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Nyack 2020 Quarter 4 Water Quality Sampling (2 of 2) | 30-Oct-20 A |             | _    |   |           |           |          |              |       |     |           | •  | Nyack 20 | 2020 Quarte | er 4 Water Q | uality San | npling (2 of 2 | 2)        |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Nyack 2021 Quarter 1 Water Quality Sampling          | 02-Feb-21 A |             | —    |   |           |           |          |              |       |     |           |  |          |             |              | Nyack      | 2021 Quarte    | er 1 Wate | er Quality S | Samplir | g           |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Submit Engineering Report for Regulatory Review      | 24-Feb-21 A |             | —    |   |           |           |          |              |       |     |           |  |          |             |              | •          | Submit Eng     | gineering | Report for   | r Regu  | atory Revie | N         |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Health Department Engineering Report Review          | 25-Feb-21 A | 03-Aug-21   | _    |   |           |           |          |              |       |     |           |  |          |             |              | Į.         |                |           |              |         |             |           | Health [  | Departme    | nt Enginee | ering Repo | ort Review |   |             |            |             |             |            |          |     |     |
| Nyack 2021 Quarter 2 Water Quality Sampling          | 10-May-21 A |             | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           | ♦ Ny         | ack 20  | 21 Quarter  | 2 Water ( | Quality S | Sampling    |            |            |            |   |             |            |             |             |            |          |     |     |
| Field Work, Survey, Soil Borings                     | 04-Jun-21 A | 06-Jul-21 A | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         | F           | ield Worl | k, Surve  | y, Soil Bor | ngs        |            |            |   |             |            |             |             |            |          |     |     |
| Detailed Design                                      | 04-Aug-21   | 04-Jan-22   | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           | _           |            |            |            |   | Detailed De | esign      |             |             |            |          |     |     |
| Submit Design for Regulatory Review                  | 05-Jan-22   |             | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            | • | Submit Des  | sign for F | Regulatory  | Review      |            |          |     |     |
| Health Department Design Review                      | 05-Jan-22   | 15-Feb-22   | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             | Heal       | lth Departi | ment Desi   | gn Review  |          |     |     |
| Advertise Period                                     | 16-Feb-22   | 15-Mar-22   | _    |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            | Adve        | ertise Peri | bc         |          |     |     |
| Award Bid  | 16-Mar-22   | 29-Mar-22   |      |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            | -          |   |             |            |             | Award Bi    | d          |          |     |     |
| Contract Approval                                    | 30-Mar-22   | 26-Apr-22   |      |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            | - |             |            |             |             | Contract A | Approval |     |     |
| Construction   | 27-Apr-22   | 20-Jun-23   |      |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |
| Start-Up, Testing / Completed Work Approval          | 21-Jun-23   | 18-Jul-23   |      |   |           |           |          |              |       |     |           |  |          |             |              |            |                |           |              |         |             |           |           |             |            |            |            |   |             |            |             |             |            |          |     |     |

H2M Architects and Engineers 2 Executive Boulevard, Suite 401 Suffern NY 10901

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|      | •   | •   | <u>.</u> | <u>`</u> |     | <u>,</u> | •   | •   | •    | · · · · · · · · · · · · · · · · · · · | 18-  | Jul-23, NY   | AK2001 -  | PFAS Treat  | ment        |       |
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