



14 December 2023

RE: Ashville Village PWS
Plan
Correspondence
Drinking Water Program
Plan Classification: General Plan
Pickaway County
PWSID: OH6500012
Package No. DDAGW-662

Jakob Meinerding, jmeinerding@jheng.com
Jones & Henry Engineers

Dear Mr. Meinerding,

We have reviewed the general plans for the New Water Treatment plant for the Village of Ashville PWS. The plans were received July 19th, 2023 , on plan application number DDAGW-662.

The comments in the “Required” section must be addressed for Ohio EPA to issue plan approval. Comments in the “Required” section include a citation from either the Ohio Administrative Code (OAC), the Ohio Revised Code (ORC), the 2012 edition of the Recommended Standards for Water Works (RSWW), or another applicable standard.

Required

PLAN SHEET COMMENTS: 0001-General Plan 3.28.23

Comment ID	Page Number	Comment
DDAGW-1	31	Please provide a present worth analysis of each alternative considered for the project including the regionalization and WTP rehabilitation alternatives. Please describe monetary and non-monetary considerations for each alternative as well.
DDAGW-2	24	Was any consideration made for possible regionalization with Circleville? They appear to have capacity, are planning to expand their system, and are about the same distance as Commercial Point. Considering this appears to be the only potentially viable regionalization option, please provide a present worth cost estimate along with a possible waterline alignment.
DDAGW-3	22	The proposed initial capacity of the plant must be able to provide for the projected water demand for the entire duration of the loan. Please adjust the

		initial proposed WTP design capacity to meet the projected max-day demand in 2043.
DDAGW-4	36	Please confirm whether the system intends to request a 20-year loan. Loans longer than 20-years must confirm the useful life of the proposed equipment will exceed the length of the loan.
DDAGW-5	32	The projected 20-year demand values in the "Design Capacity" table don't match the projected values shown in Table 9 and Figure 14 (page 22). Please note, the graph and table show max and average demand flows of about 2.0 MGD and 1.4 MGD, respectively.
DDAGW-6	9	Please utilize 10-years of historical water demand data to determine the "Max Avg Ratio" and "Min Avg Ratio," instead of the 4 years of data provided. Please also provide ratios for "peak-hour of treatment to maximum-day production" and "peak-hour of production to maximum-day production."
DDAGW-7	20	Please provide more justification of Ashville's estimate of 60% growth within 5 years. The historical population data shows a maximum growth rate of 40.8% over the course of 10 years (20.4% change in 5 years on average).
DDAGW-8	32	Additional source capacity is needed to allow the system to meet its proposed expanded capacity of 2.0 MGD. The source capacity of the wells will be determined with the largest well out of service, which is currently 1200gpm (1.73 MGD). Please update the new WTP alternative, as well as the project cost to reflect these needs.
DDAGW-9	20	Given the population is estimated to exceed 5,000 people, the Village will need to add fluoride to their proposed treatment process to comply with ORC Section 6109.20.
DDAGW-10	32	Please report the unit capacity in terms of "Equivalent Max-Day Demand." Please see the approved capacity document for additional instructions, available at: https://epa.ohio.gov/static/Portals/28/documents/engineering/ApprovedCapacity.pdf
DDAGW-11	33	Please add additional filtration capacity to the initial design to meet the projected max-day demand in 2043, which from projections on page 22 appear to be at least 2.0 MGD.
DDAGW-12	29	Please acknowledge that the Village will need to complete a corrosion control evaluation as part of the detail plan portion of this project. The trigger for this evaluation would be either "changes/additions of pH adjustment" or "addition of orthophosphate or blended phosphate."
DDAGW-13	6	The provided iron values are extremely high. Please fix the units or values in Table 1 for Iron.
DDAGW-14	6	Is well 5 to be used in place of both wells 2 and 3? Please provide the capacities of wells 2 and 3.

DDAGW-16	9	Please include a subsection on the existing condition of the distribution system, including estimated water loss and upcoming projects.
DDAGW-17	34	Please confirm the WWTP will be able to handle the additional loading resulting from the expansion project.

PLAN SHEET COMMENTS: 0002 - General Plan Appendices

Comment ID	Page Number	Comment
DDAGW-15	11	Please provide a process flow schematic of the existing WTP. Additionally, please add the caustic soda, fluoride, and optional phosphate feed points to the proposed process flow schematic in Appendix C.
DDAGW-18	5	In appendix B, please clarify which building layout represents the recommended option for the “New WTP” alternative.
DDAGW-19	11	Please ensure that the plant is provided backflow protection from the filter backwash & softener waste storage tank’s discharge to the sanitary sewer. An air gap must be provided prior to discharging into the sanitary sewer.

The plans submitted at this time cannot be approved until the requested information and plan revisions are received. Please submit a revised electronic copy of the detail plans, specifications, and revision letter to the project in the ePlans portal. Please be advised, we may have further questions and comments as the review process proceeds. If you have any questions, please email me at Ricky.Vehar2@epa.ohio.gov.

Sincerely,

Ricky Vehar

Ricky Vehar
Environmental Specialist 2
Engineering and Infrastructure Section
Division of Drinking and Ground Waters

Cc: Franklin Christman, Ashville PWS Owner, fchristman@ashvilleohio.gov
Lucas Hall, Engineer II, Jones & Henry Engineers, LHall@jheng.com
Maria Lucente, P.E., Environmental Manager, DDAGW-CO