COLORADO
Department of Public Health & Environment

November 16, 2022

Jim Walker
Pine Canyon Water and Sanitation District
5975 E. Jamison Pl.
Centennial, CO 80122

Subject: New Domestic Wastewater Treatment Plant Site Location Decision
Regulation 22 Site Location Approval No. ES.20.SA.05399
Pine Canyon WSD, Pine Canyon Reclamation Facility
Colorado Discharge Permit System (CDPS) No. COUT
Douglas County

Dear Jim Walker:

The Water Quality Control Division (Division) has received and reviewed the site location application for the Pine Canyon Water and Sanitation District's Pine Canyon Water Reclamation Facility. The treatment plant is proposed to be located as follows: The SE ¼ of Section 34, Township 7 South, Range 67 West, in Douglas County. The treatment system will produce reclaimed water to be utilized for Category 3 uses in accordance with Regulation 84 - Reclaimed Water Control Regulation (Regulation 84) and Regulation 62 – Regulations of Effluent Limitations. Treated effluent will be land applied at agronomic rates in accordance with the approved Land Application Management Plan dated March 14, 2022, or most recent update. The treated effluent will be reused and/or land applied for landscape and crop irrigation.

The site location application has been found to be in conformance with the Water Quality Control Commission's ***Site Location and Design Regulations for Domestic Wastewater Treatment Works, 5 CCR 1002-22*** (Regulation 22) and is approved. This site location approval addresses the following summary of the proposed design and must meet the associated conditions:

1. Based upon application information, the treatment works will be designed to receive the following:

   Hydraulic Design Capacity (Maximum Month Average Daily) – 0.405 million gallons per day (MGD)

   Organic Design Capacity (Maximum Month Average) – 1,485 lbs. BOD_5/day

2. As a result of the project, the following processes will be utilized at the proposed treatment plant:
   - Liquid Process: The liquid treatment process includes fine screening; grit removal; advanced biological treatment consisting of anaerobic, anoxic, aeration and membrane bioreactor (MBR) basins; metal salt addition; and ultraviolet disinfection.
   - Solids Process: The solids handling process includes waste activated sludge holding tanks and a dewatering system including polymer system, dewatering press, and cake solids handling.

3. The Pine Canyon Water and Sanitation District formation must be complete before construction commences.

4. Regulation 84, Reclaimed Water Control Regulation, distinguishes between localized and centralized treatment facilities based on the presence of industrial and other diluting sources. When the WWTF comes online, the facility will have minimal diluting sources and a small population. In this early stage, the facility is considered a localized treatment facility. However, according to the Preliminary Effluent Limits (PELs) dated June 6, 2022, the Division will grant a variance from Localized System requirements as long as the only use of reclaimed water is restricted-access landscape irrigation. The conditions of the variance described in the PELs must be complied with for the duration of the variance.

5. The system must control the rate of irrigation to ensure the application of effluent is at or below

agronomic rates for nutrients and/or evapotranspiration rates in accordance with the approved Land Application Management Plan (LAMP) dated March 14, 2022, or most recent update.

6. The design may use soil moisture probes or other systems to assure land application at agronomic rates with no or limited deep percolation and runoff. The actual location of the soil moisture probes or other systems will be determined during the permitting phase. If such proposed probe locations are shown in the site location application materials being approved, the locations of those compliance points are not approved until confirmed during the permitting phase.

This site location approval does not constitute design approval for construction. In accordance with Regulation 22, Section 22.13(1) and in addition to approval of the site location application, the applicant must obtain design approval of the treatment works from the Division prior to beginning construction.

This site location approval will expire on May 16, 2024. If construction has not commenced by this date, the approval will expire and a new application for site location approval may be required. Construction is defined as entering into a contract for the erection or physical placement of materials, equipment, piping, earthwork or buildings which are to be a part of a treatment works. In cases where the applicant elects to use in-house work forces, construction shall be considered to begin when any actions are initiated towards the previous activities.

In accordance with Regulation 22, Section 22.4(12), this site location approval is subject to appeal pursuant to the State Administrative Procedures Act.

This approval does not relieve the applicant/owner from compliance with all local, state, and federal regulations prior to construction nor from responsibility for proper engineering, construction and operation of the treatment works.

The following performance requirements must be completed before proceeding to construction and subsequent operation of the treatment plant:

1. The treatment plant design must be based upon the Preliminary Effluent Limits dated June 6, 2022, which was determined to be the Water Quality Planning Targets for the proposed project. Changes to the Water Quality Planning Targets as a result of changes made during design and/or construction may require submission of a request to amend this approval or submission of a revised site location application.

2. A letter of intent shall be submitted to the Division's Reclaimed Water Program to obtain a Treater Authorization for reuse of treated effluent from the treatment works. If there are questions concerning the Reclaimed Water Program or requirements for a Treater Authorization, please contact Brandi Honeycutt at brandi.honeycutt@state.co.us or at 303-692-6357. Please refer to the Division's Water Quality Reclaimed Water Permits web page for specific information about the authorization process. The web page is available at the following link.

The Engineering Section is interested in gaining feedback about your experience during the engineering review process. We would appreciate your time to complete a Quality-of-Service Survey regarding your experience during the engineering review process leading up to issuance of this decision letter. The Engineering Section will use your responses and comments to identify strengths, target areas for improvement, and evaluate process improvements to better serve your needs. Please take a moment to fill out our survey here.

If you should have any questions, please contact Emily Wong by phone at 303-692-3566 or by email at emily.wong@state.co.us.

Sincerely,

Bret Icenogle Digitally signed by Bret Icenogle
Date: 2022.11.16 12:36:56 -07'00'

Bret Icenogle, P.E.
Engineering Section Manager
Water Quality Control Division
Colorado Department of Public Health and Environment

cc: Bob Frachetti, AQUA Engineering
Cody Vavra, AQUA Engineering
Kurt Walker, JRW Family Limited Partnership, LLLP.
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