



COLORADO
Department of Public
Health & Environment

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July 27, 2017

Jim Hancock, Town Engineer
Town of Gypsum
P.O. Box 130
Gypsum, CO 81637

Subject: Request for Information - Site Location Application
Plans Submittal for the Town of Gypsum, Main Plant Lift Station Upgrade
Colorado Discharge Permit System (CDPS) No. CO0048830
Existing Site Application No. SA0004479
Eagle County
ES Project No. ES.17.SA.03371

Dear Mr. Hancock:

The Water Quality Control Division (Division) has reviewed the Main Plant Lift Station Upgrade Site Application submission by Zancanella and Associates on behalf of the Town of Gypsum. Based on the Division's initial review, the site location application does not meet the requirements of the Water Quality Control Commission's *Site Location and Design Approval Regulations for Domestic Wastewater Treatment Works, 5 CCR 1002-22* (Regulation 22) and cannot be approved at this time. For additional information, please refer to the *Guidance Document for the Site Location and Design Approval Regulations for Domestic Wastewater Treatment Works 5 CCR 1002-22* (Regulation 22 Guidance Document), which is available at the following web link:

<http://www.cdphe.state.co.us/wq/engineering/reg22/guide/22guide.pdf>.

The review process for this project has been placed on hold pending resolution of the following issues:

1. In accordance with Section 22.3(2)(a) of Regulation 22 the engineering report must address that the existing (Town of Gypsum) treatment works will not be overloaded when connecting new lift stations or interceptors. Based on the site application, an existing lift station will be expanded. Currently, the lift station houses two 400 gpm pumps that will be replaced with two 900 gpm pumps. The pump station discharges directly into the wastewater treatment facility. The current Site Approved (4479) hydraulic design capacity of the wastewater treatment facility (WWTF) is 0.96 MGD and the proposed expanded lift station pump capacity will be 2.6 MGD. The engineering report does not appear to provide evidence demonstrating the existing wastewater treatment works will not be overloaded when the lift station is expanded. Please provide additional information, including hydraulic calculations, demonstrating the existing wastewater treatment facility will not be overloaded when the lift station capacity is expanded.
2. In accordance with Section 22.7(1)(c) of Regulation 22 the engineering report must describe the service area for the lift station, including existing and projected population and flow/loading projections showing projected flow and loading over the following 20 years. While the engineering report offers limited discussion on current flows and flow variation, the report does not appear to substantiate the projected organic and hydraulic loading to the lift station and WWTF over the 20-year planning period. The Division expects the engineering report to include maps, and develop projected flow and loading by considering the design service area population, land use and unique customers. Please provide the map(s), and projected flow and loading over the 20-year planning period. Please discuss the adequacy of



the proposed lift station improvements and existing wastewater treatment plant over the planning period or plans of expansion, if needed.

Please submit a written response to this letter that addresses the identified issues. Following receipt of your response submission, the Division will resume review work on the project. Thank you for your time and cooperation in this matter. Please contact me by telephone at 303-692-6437 or by electronic mail at eric.oppelt@state.co.us if you have any questions.

Sincerely,

Eric T. Oppelt, P.E.
Senior Review Engineer
Engineering Section | Water Quality Control Division
Colorado Department of Public Health and Environment

cc: Tim Reitz, Town of Gypsum
Zancanella & Associates
Eagle County Health Department
Amy Zimmerman, WQCD ES Unit Manager
Site Application File | Permit File CO0048830