

April 9, 2019

Mr. Robert Hunter General Manager Municipal Water District of Orange County 18700 Ward Street Fountain Valley, CA 92708

Re: Development of Hydraulic Model of the Regional Pipeline System in Orange County

Rob:

On April 10, 2019, the Municipal Water District of Orange County (MWDOC) Administration and Finance Committee will consider awarding a contract to investigate and provide recommendations related to the development of a hydraulics model of the regional pipeline system in Orange County. A primary focus of the investigation work will be to determine the best software to apply in the development of the model. It is anticipated that the model would provide the ability to evaluate the integration of multiple treated water sources into the regional pipeline system. The purpose of the letter to provide recommendations for additional work that MWDOC should consider when evaluating the feasibility of integrating different supplies into the system.

Impacts to Water Quality:

Direct deliveries of desalinated seawater through the regional pipeline system could have detrimental impacts on IRWD's recycled water system as well as the quality of water delivered to IRWD's customers. The higher levels of total dissolved solids (TDS) that are contained in desalinated seawater are not acceptable to IRWD's recycled water system and could impair IRWD's ability to meet existing Regional Water Quality Control Board permit requirements. Additionally, increases in TDS (especially chlorides and boron) could make it difficult to meet the needs of IRWD's customers. Any study of the feasibility of integrating other supplies into the regional pipeline system will be dependent on avoiding such impacts. IRWD recommends that MWDOC carefully study the water quality implications to all of its member agencies that might take delivery of the integrated supplies.

Consent of Pipeline Owners:

The integration of different sources of water into various regional pipelines will require the consent of the owners of the facilities. For example, IRWD is an owner of significant capacity in the East Orange County Feeder # 2 (EOCF#2). Accordingly, IRWD and the other owners of the

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EOCF#2 as well as the various other pipelines should be consulted early in the supply integration evaluation process.

Please provide a copy of this letter to each of your Board members in advance of the upcoming Administration and Finance Committee meeting. We hope that the information provided will assist MWDOC in its evaluation of the feasibility of integrating other water sources into the regional pipeline system. I look forward to discussing the related issues with you in greater detail. At your convenience, please contact me at (494) 453-5590 so that we can schedule a meeting.

Sincerely,

Paul A. Cook, P.E. General Manager