Dear Basin Monitoring Program Task Force Members,

In support of the implementation of the Task Force's Planning Priorities for Fiscal Year 2021-2022 to ensure compliance with the State Board's 2018 Recycled Water Policy and any accompanying revisions to the salt and nutrient management plan in the Santa Ana River Basin Plan, West Yost has prepared the data request described below for the Task Force.

This data request is for the implementation of ***Task 1 – Prepare Updated Surface Water Monitoring Program for TDS/N for the Santa Ana River Reaches 2, 3, 4, and 5.*** The request is separated into two different sections: Surface Water Monitoring Data and Model Files and Information.

Request for Surface Water Monitoring Data

The intent of this request is to compile a complete comprehensive list of all the locations where surface water quality and flow data is currently monitored or has been monitored along the Santa Ana River and tributaries in Reaches 2 through 5, and to collect all the monitoring data. Table 1 attached is a preliminary list of all surface water monitoring locations along Reaches 2, 3, 4, and 5 of the Santa Ana River and its tributaries where water quality data and flow data are currently collected by various entities including Task Force members, and/or was historically collected by members of the Task Force. Table1 is in Excel Format and includes the following information:

- Reach – Reach number of the Santa Ana River
- Water Body – Santa Ana River or specific tributary
- Location Type - Stream or Publicly Operated Treatment Works (POTW) effluent discharge
- Monitoring Entity
- Data Type – Discharge, water quality (WQ), etc.
- Frequency – Collection frequency of the data type
- Date From – approximate year data started being collected
- Data To - approximate year data goes through
- Lat/Long – Latitude and longitude coordinates
- Notes

A. Request Directed to All Members of the Basin Monitoring Program Task Force – Review Table 1 and provide edits and or additions to this preliminary list for the areas of the Santa Ana River and tributaries that you are acquainted with the monitoring, and/or are assigned as the monitoring entity. If feedback is provided on an additional surface water monitoring location, please provide the monitoring data for that location in digital format.

B. **Request Directed to Yucaipa Valley Water District (YVWD) and City of Beaumont - 1)** All surface water quality and discharge data collected by YVWD and City of Beaumont for their Maximum Benefit Monitoring Programs for the Beaumont, San Timoteo and Yucaipa Groundwater Management Zones from 2015 to current. **2)** – *Lat/Long* coordinates for the following surface water monitoring locations: CC-02, CC-03, TMC-01, TMC-02, STC-02, NC-01, YVWD-Z.

C. **Requested Directed to Orange County Water District (OCWD)** – **1)** *Lat/Long* coordinates for the locations where OCWD is assigned as the monitoring entity in Table 1 and there is a "X" in the *Lat* and *Long* columns. **2)** The years or dates for the *Data From* and *Data To* for the locations where OCWD is

assigned as the monitoring entity in Table 1 and there is a "X" in the *Data From* and *Data To* columns. **3)** Information on all surface water locations along Reach 2 where OCWD collects water quality/discharge data besides the *Santa Ana River Below Prado Dam* and *Santa Ana River at Imperial Highway* locations. **4)** All historical water quality and discharge data collected by the OCWD at the surface water monitoring locations along Reach 2 besides the *Santa Ana River Below Prado Dam* location.

D. Requested Directed to Santa Ana Watershed Project Authority (SAWPA) - All historical water quality data collected and maintained in the database for the SAWPA Annual Reports in digital format, for all historical data through 2016.

Please provide all request data and information for items A through D above to Veva Weamer vweaamer@westyost.com and Mark Norton mnorton@sawpa.org

Upon review of the data and information, West Yost may require some follow up coordination with certain members of the Task Force on the data request and the data received.

Request for Model Files and Information

As part of the development of an improved surface water monitoring program in the Santa Ana River, we will review the recently developed Chino Valley Model (CVM), the integrated Santa Ana River Model (ISARM), and the 2017 Wasteload Allocation Model (2017 WLAM). For these models, we will document the assumptions and results for the groundwater flow systems where surface and groundwater interactions occur and make findings on the monitoring required to improve the representations of surface water quality and surface and groundwater interaction. Therefore, we are requesting model files from the ISARM and the 2017 WLAM to support this effort.

E. Request Directed to the San Bernardino Valley Municipal Water District (SBVMWD) and Geoscience - Provide the following data from the ISARM:

1. Input files from the following scenarios:
    a. Calibration
    b. Scenario 2a (Baseline Conditions – No HCP Covered Activities)
    c. Scenario 2b.1 (All HCP Activities – Hydrology 1966-1990)
    d. Scenario 2b.2 (All HCP Activities – Climate Change Alternative 1)
    e. Scenario 2b.3 (All HCP Activities – Climate Change Alternative 2)
2. Input files for the five scenarios specified in (1) should include all files necessary to characterize the assumptions regarding the interactions between the Santa Ana River and the groundwater for Reach 3 and 4, including, but not limited to:
    a. Drain (DRN) package
    b. Streamflow-routing (SFR) package
    c. HSPF input files or information (e.g., FTABLEs) used to characterize the SAR channel geometry, if not characterized in the SFR package.
3. Output files from the five scenarios specified in (1). At a minimum, this should include the SFR list file and the water budget files for the Chino Basin and the Riverside-Arlington Basin.
4. Any supporting information or files necessary to map and/or interpret the input and output files requested above that is not already documented in the September 2020 Model report.

F. Request Directed to SAWPA and Geoscience – Provide the following data from the 2017 WLAM:

1. Input files from the following scenarios:
    a. Calibration
    b. Predictive Scenario B
    c. Predictive Scenario E
    d. Retrospective
2. Input files should include all files necessary to characterize the assumptions regarding the interactions between the Santa Ana River and the groundwater for Reach 3 and 4, including, but not limited to:
    a. User's Control Input (UCI) files with the RCHRES module data, including FTABLEs for the segments in Reaches 3 and 4 and the associated data used in the CONS subroutine
    b. PQUAL module files, if not part of the UCI files
    c. IQUAL module files, if not part of the UCI files

Please provide all request data and information for items E through F above to Garrett Rapp grapp@westyost.com and Mark Norton mnorton@sawpa.org

Some of the requested files may be too large to email and require the use of a file transfer protocol or other method.

Upon review of the data, West Yost may request one or more meetings with Geoscience to clarify the model data. SAWPA staff will be notified in advance of any request for a meeting.

Please provide all the requested data and information by **September 14, 2021.**

Thank you,