

Appendix HWQ-2

DWR Technical Adequacy Memorandum

**Department of Water
Resources**
Matt Satow
Director



Divisions
Water Supply
Drainage
Administrative Services/Finance

County of Sacramento

Date: 01/25/2024

To: **Zachary Tait, P.E.**
Kimley-Horn and Associates, Inc.

Project: WattEV Electric Truck Stop Level 3 Drainage Study – Resubmittal 2 Comments

The Sacramento County Department of Water Resources (Water Resources) has reviewed the level 3 drainage study dated 01/25/2024 and deemed technically sufficient to support the Environmental Impact Report.

A level 4 drainage study will be needed prior to improvement plans submittal or approval if the Parallel Review process is followed. Please contact this office to scope the level 4 study and note the following minimum requirements.

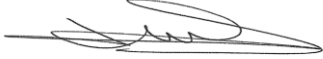
1. Water Resources has not reviewed the drainage study by West Yost and Mead & Hunt dated 05/12/2016 related to the 200-year WSE/ULOP. Figures 2 and 3 of said study show 100-year and 200-year floodplains with the same elevation, yet the 200-year floodplain has a smaller footprint. It is possible that both storm frequencies could have the same maximum water surface elevation due to pumping upstream, but it is unclear why the 200-year would have a smaller footprint. At this time, Water Resources' position is that this project is subject to ULOP requirements until sufficiently proven otherwise. This issue will be revisited at the design phase and comparison to the latest Natomas Basin HEC-RAS model will be required.
2. Analysis of the 24-hour duration may be included at the design phase at the discretion of Water Resources.
3. The report does not consider Low Impact Development (LID) requirements. Unless there is an explicit exemption for this project, the site design will need to incorporate LID features pursuant to the Stormwater Quality Design Manual. Clearly state this in the report.
4. The report does not mention whether this project is subject to hydromodification requirements. Unless there is an explicit exemption for this project, the site design will need to incorporate hydromodification features pursuant to the Stormwater Quality Design Manual. Clearly state this in the report.
5. The 100-year floodplain using current topography. Response to comments do not address this explicitly and the floodplain has the same footprint. At the design phase, the no-net-loss analysis will need to be done based on actual existing topography. Additionally, the analysis does not present a 1-1 incremental pre- and post-project comparison. Changes to the site grading may result from addressing these requirements.
6. The minimum floor elevation for all buildings (1.5' above the 100-year and at or above the 200-year as applicable) and the minimum elevation for all proposed solar panels and electrical equipment (1.5' above the 100-year. In the case of solar panels, the minimum elevation is measured based on the steepest tilt angle) will be established at the design phase.
7. The level 4 study will be required to show the pre- and post-development freeboard elevations at the Power Line Rd. culvert crossings. This needs to show compliance with the County Floodplain Management Ordinance and Improvement Standards. If the freeboard at the Power line Rd is reduced, then flood mitigation may be required.
8. The XP models still include a 24-hour scenario which was not reviewed and hence it is subject to change.
9. It is still unclear if inflows from the north correspond to the 10-day duration storm. Also, some nodes have user inflows for the 10-day scenario that would correspond to a 24-hr storm.
10. The level 4 study will need to describe the storage nodes used in both pre- and post-project models.
11. Approval from RD-1000 will be required prior to receiving approval from Water Resources.
12. Note the following regarding the Sacramento County Hydrology Standards:
 - a. The Nolte method is used only for storm drain pipe design.
 - b. The Sacramento Method is used for any project that requires flood control mitigation.

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c. The Sato method is no longer used in the unincorporated county.

Please feel free to call if you have any questions.

Sincerely,



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