

Appendix D

Hydrology Certification Letter

HYDROLOGY CERTIFICATION LETTER

Date: June 30, 2024

Attention: Planning Department
City of Victorville

Subject: TTM 17692 Tawney Ridge Hydrology Certification Letter
Tawney Ridge Road, Victorville, California
APNs: 0395-211-01, 0395-212-04, 0395-212-05 and 0395-271-02

It is my professional opinion as the engineer of record that the proposed improvements within the project site as presented on the TTM 17692, its associated Conceptual Grading Plan and in the its associated Preliminary WQMP located on Tawney Ridge Road in Victorville, California will not will significantly alter, impact, flood, or effect the project site's existing downstream drainage patterns or devices. This is based on the project being situated in Type C Soils and utilizing a project serving on-grade basin at the proeject's low point. storage tanks to contain the 100-Year Design Storm Event Volume (Using the 25-Year Data per County standards) as proposed. As part of the project design, the basin will be allowed to infiltrate water out the bottom of the basin and will be utilizing a lot of site landscaping areas. The total volume of this site design is as follows:

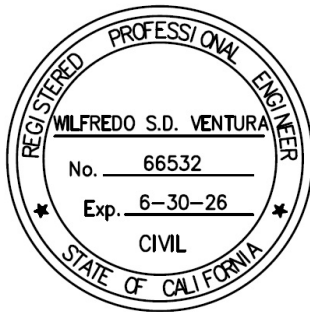
Storage Elements:	Basin Footprint:	16,855 sq-ft
	Basin Depth:	3 ft
	Basin Volume – Footprint x depth:	50,565 cu-ft
	Landscaped Areas:	155,784 sq-ft
	Landscape Depth:	6 inches (0.5 ft)
	Landscape Porosity:	30%
	Landscape Volume:	23,368 cu-ft
	Total Storage Volume:	73,933 cu-ft
Infiltration Areas:	Landscape Footprint:	155,784 sq-ft
	Basin Footprint:	16,855 sq-ft
	Total Footprint:	172,639 sq-ft
Infiltration Data:	Infiltration Rate:	0.57 in/hr
	Safety Factor:	3
	Design Infiltration Rate:	0.19 in/hr
	Infiltration Time:	24-Hours

Total Infiltration in 24-Hours = Footprint x Rate x 24 hours = 787,234 cu-ft

This means that the project site will provide 73,933 cu-ft (1.6973 acre-ft) of storage and 787,234 cu-ft (18.0724 acre-ft) of infiltration in a 24-hour time period of the project site's total area of 402,193 sq-ft (9.23 acres).

I hereby declare that I am the engineer of work for this project, that I have exercised responsible charge over the design of the project as defined in Section 6703 of the Business and Professions code, and that the design is consistent with current standards.

Furthermore, it is also understood that this is a preliminary hydrology certification and that during the final engineering phase of project approvals after entitlement approvals are obtained a full hydrology report will be conditioned and required to obtain final approvals.



Wilfredo Ventura

6/30/24

WILFREDO VENTURA
R.C.E. NO. 66532
EXPIRES 6/30/26

DATE