Received 4/17/2026

Preliminary Sewer Capacity Study

For

Valentine Avenue Development

8100 Valentine Avenue
Sebastopol, CA
APN 004-510-054

JN 25213
April 15, 2026

Prepared for:

Grupe Investment Company, Inc.
3255 West March Lane, Suite 400
Stockton, CA 95219
Phone: (209) 473 - 6010

Casey Rhea Talbot, RCE 91962

My license expires 03/31/2027

Prepared by:

adobe associates, inc.
civil engineering | land surveying | wastewater
1220 N. Dutton Ave., Santa Rosa, CA 95401
P. (707) 541-2300 F. (707) 541-2301
Website: www.adobeinc.com

Prepared By: KM
Checked By: CT

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Preliminary Sewer Capacity Study
Narrative

1 Project Description

The Valentine Avenue project is located at 8100 Valentine Avenue in Sebastopol, California. The project proposes to construct 20 single family residences, an asphalt driveway, associated hardscaping and landscaping, and required Low Impact Development (LID) features. This project proposes a 6" sanitary sewer main on site that will connect to the existing 6" sanitary sewer within the 25' utility easement per 928 O.R. 444.

The purpose of this study is to demonstrate that a 6" sanitary sewer main has adequate capacity for the sewer flows from this development. This analysis has been solely based upon the size of the proposed main, slope, and number of parcels connected and does not include hydraulic modeling due to the limited available information.

2 Sanitary Sewer Study

Wastewater generation rates are computed and presented in **Appendix I: Sanitary Sewer Calculations**. The equation for the design flow and related peak factors and values were taken from the City of Santa Rosa "Sanitary Sewer Standard Specifications". Peak hour demand is 3.42 times the Average Day Demand. Based on a total estimated population of 65 persons, the peak flow from the proposed development is 31,715 gallons per day (gpd) or 0.049 cubic feet per second (cfs), inclusive of infiltration and inflow.

3 Conclusion

The sewer analysis demonstrates that the sanitary sewer mains will have adequate capacity to handle the peak use of the proposed development and shows the total estimated sewer flow from this development.

Appendix I

Sanitary Sewer Calculations

Sewer Peak Flow Calculations

Project: Valentine Avenue Development
Job No: 25213

Date: 4/16/2026
By: KM

Q_D = Design Flow (GPD)
$Q_{90\%}$ = Max Design Capacity

Sewer Contribution According to Zoning and Use

Zoning Area Type R-4

	People Per Unit	Total Units	Total Persons
Single Family	3.25	20	65

Q_D - Total Design Peak Flow (Single-Family Dwelling Sewer)		
Single Family Dwelling # of Occupants	65	Persons
Wastewater Flow per Capita	125	Gal/Day/Persons
Peaking Factor	3.65	Gal/Day
Total Design Peak Dry Weather Flow, Q_D	29,640	Gal/Day
Inflow & Infiltration (7%)	2,075	Gal/Day
Total Design Peak Wet Weather Flow, Q_D	31,715	Gal/Day
	0.049	ft^3/sec

$Q_{90\%}$ - Max Design Capacity		
Total Design Peak Wet Weather Flow, Q_D	**31,715**	Gal/Day
	0.049	ft^3/sec
6" Sewer Main Capacity		
Q (6", s=0.0050 , 90% depth) =	295,993	Gal/Day
$Q_{90\%}$	0.458	ft^3/sec