

Stege Sanitary District

serving Kensington, El Cerrito, and the Richmond Annex

SANITARY SEWER CAPACITY STUDY CRITERIA

PURPOSE

The sanitary sewer capacity study shall analyze the impact of the proposed project on the capacity of the existing sanitary sewer system. The developer shall pay for all costs associated with the study. If a study is required, no "will serve" letter will be issued until the District determines the required improvements, if any. This will not apply to projects within the San Pablo Specific Plan Area (SPSPA).

TRIGGER

For only those projects not within the SPSPA, a sanitary sewer study shall be required for a proposed project if it exceeds one or more of the following criteria:

1. 10 or more residential dwelling units
2. 10,000 square feet of office or commercial facility
3. 1,000 square feet of restaurant
4. Laundromat and/or industrial laundry
5. Any other project that may create a new connection(s), including an alternative use of existing connection, that will exceed the sewer capacity of existing sewer line, as determined by the District.

CRITERIA

1. At a minimum, two manhole locations shall be flow monitored for a two-week wet weather period to determine existing flow characteristics. The locations shall be at the sewer line nearest the project site, and at the nearest trunk line. The monitoring shall be dynamic, continuous and be recorded at 15-minute intervals.
2. The analysis of this data will use the following peaking factors for dry weather flow:
 - 4.5 for local lines
 - 1.5 for trunk lines
3. In lieu of wet weather monitoring, wet weather flow will be calculated at 400% of peak dry weather flow.
4. Fixture unit equivalents shall be used to determine the amount of proposed project flow.
5. The average family unit shall be 3.0 persons per residence and 100 gal/person/day for proposed residential flows.

FINDINGS

1. Existing capacity of system.
2. The post-development capacity of system.
3. Percent (%) of pipe full at peak flow.
4. Confirm adequacy of existing local and trunk lines for both existing and anticipated future flows. Recommended actions required to mitigate any impact that overcharges the system.

FLOW MONITORING

Developers may use a professional Engineer licensed in the State of California and/or a Contractor with at least 5 years experience in flow monitoring to perform requirements of the Sanitary Sewer Capacity Study. The following companies are two of several companies that will provide services of the type required by these criteria. The District is **not** recommending these firms, but merely makes their contact information available as a customer service.

*Total Flow, Inc.
23520 Foley St., Unit B
Hayward, CA 94545*

*Contact Person: Jeff Blum
(510) 774-9223*

*V&A Consulting Engineers, Inc.
1999 Harrison Street, Suite 975
Oakland, CA 94612*

*Contact Person: Kevin Krajewski
(510) 903-6600 Office
(510) 903-6601 Fax*

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