



City of Lakewood Sanitary Flow Study

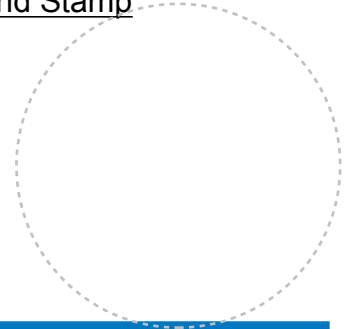
Date: _____

APPLICANT INFORMATION

Engineer Name _____
Company Name _____
Street Address _____
Unit/Apt# _____
City/State _____
ZIP Code _____

Engineer Certification and Stamp

This sanitary flow study was prepared by me (or under my direct supervision) in accordance with the requirements of the City of Lakewood Water and Sewer Rules and Regulations, Latest Revision



PROJECT DESCRIPTION

Project Name: _____
Project Address: _____
Project Description:

SANITARY FLOW CALCULATIONS

CITY OF LAKEWOOD ENGINEERING APPROVAL

Review is only for general compliance with City of Lakewood Water and Sewer Rules and Regulations. All responsibility for existing conditions, correctness of dimensions, details, concepts, quantities and safety during construction shall remain with those designing, developing, and constructing the project. If there are any design changes subsequent to this approval (during design and/or construction), which affect this flow study, it shall be the responsibility of the Engineer of Record to update this study and submit it to the City of Lakewood for Review and Approval.

ATTACHMENTS

TABLE 303.1-1			
Zoning Classification	Units Per Gross Acre	Persons Per Unit	Persons Per Gross Acre
R-1-43	1	3.25	3.3
R-1-18	2.4	3.25	7.8
R-1-12	3.5	3.25	11.4
R-1-9	4.8	3.25	15.6
R-1-6	7.3	3.25	23.7
R-2	8.7	2.5	21.8
R-MF	12.0	2.5	30.0
R-MH (single wide)	18.2	2.0	36.4
R-MH (double wide)	12.1	2.0	24.2
M-N	12.0	2.0	24.0
M-G	25.0*	2.0	50.0
M-C	35.0*	2.0	70.0
M-E	20.0*	2.0	40.0
M-R-S	5.0*	2.0	10.0
M-R-U	10.0*	2.0	20.0
M-R-T	30.0*	2.0	60.0

* These are the minimum values for these particular zoning classifications. Actual values shall be determined at time of property development.

Table 303.10-1

<u>Zoning Classification</u>	<u>Average Daily Contribution</u>
Office/Commercial	4,000 gal per ac.
IN	6,000 gal per ac.
PD	Based on Official Development Plan

Table 303.10-2

PEAK FLOW FACTORS			
AVERAGE FLOW GALLONS PER MINUTE	PEAK FLOW FACTOR	AVERAGE FLOW GALLONS PER MINUTE	PEAK FLOW FACTOR
80	5.08 (max)	400	3.87
96	4.93	560	3.66
112	4.80	720	3.51
128	4.70	880	3.39
144	4.60	1040	3.30
160	4.52	1200	3.22
176	4.45	1360	3.15
192	4.38	1520	3.09
208	4.33	1680	3.04
224	4.27	1840	2.99
240	4.22	2000	2.95
256	4.18	2400	2.86
272	4.13	3200	2.73
288	4.09	4400	2.58
312	4.04	5200	2.51

Peak Flow Factor = 10.66 divided by (Average Flow in gpm)^{0.169}