

WATER METER SIZING WORKSHEET ADDITIONAL INFORMATION - RESIDENTIAL

NOTES:

- ② **A. Domestic Water Demand Calculation:** Complete the columns of the chart by supplying the quantity and type of fixtures being added, remaining, and/or removed. Accuracy of the fixture count is necessary to determine the appropriate meter size and GPM. Refer to Table 1 below for details on Meter Sizing.
- ② **B. Fixtures Added:** In this column, list the number of new fixtures or the number of fixtures being added to an existing project under the appropriate fixture type.
- ② **C. Existing Fixtures:** In this column, list the number of fixtures that will remain and/or that will be relocated during and preceding the construction phase of the project.
- ② **D. Fixtures Removed if Applicable:** In this column, list the number of fixtures that are actually being removed which will create a reduction in the water demand. If water fixtures are being demolished, photographs of the water fixtures may be required to obtain the appropriate fixture unit credits.
- ② **E. Fixture Unit Multiplier:** Each plumbing fixture is given a fixture unit value. Fixture units are used for water meter sizing purposes. The unit count for each fixture is determined by multiplying the number of each fixture type by the appropriate number in the multiplier column.
- ③ **Other Miscellaneous Water Demand:** There are some process water demands that are not listed, such as unusual water fixtures, custom equipment, etc. Each of these will be assessed on a case by case basis and assigned either a fixture unit value or demand in GPM. Refer to Table 2 above.

Table 2 - Flow to Fixture Unit Conversions***							
Flow GPM	Fixture Units	Flow GPM	Fixture Units	Flow GPM	Fixture Units	Flow GPM	Fixture Units
1	0	15	21	29	51	43	99
2	1	16	23	30	53	44	103
3	3	17	24	31	56	45	107
4	4	18	26	32	58	46	111
5	6	19	28	33	60	47	115
6	7	20	31	34	63	48	119
7	8	21	32	35	66	49	123
8	10	22	34	36	69	50	128
9	12	23	36	37	74	51	130
10	13	24	39	38	78	52	135
11	15	25	42	39	83	53	141
12	16	26	44	40	86	54	146
13	18	27	46	41	90	55	151
14	20	28	49	42	95	56	155

*** Additional flow to Fixture Unit Conversions for higher flows are available upon request. For values between values included in Table 2, linear interpolation should be used to determine the exact GPM. For example, the following calculation can be performed to determine the exact GPM between 15 and 16 based on 22.1 FU's for reference:
 $GPM = 16 - (16 - 15) \times ((23 - 22.1) / (23 - 21)) = 15.6 \text{ GPM.}$