

# **APPENDIX F**

# Memo

**To:** Rich Ulm – Public Works Deputy Director  
**From:** William Wong – Associate Civil Engineer  
**CC:** Jack Bond  
**Date:** 11/15/2006  
**Re:** Sewer Rate Study – Capacity Utilization projections

Based on the sewer Capacity Utilization Study, the following projections regarding sewer connection fees (capacity charges) for the projects identified in the Domestic Wastewater Near-Term Capacity Study, thru 2011, are the following:

Current Vested Projects:

Residential: 2,669, Non-Residential: 2,751

EDUs	2006	2007	2008	2009	2010	2011	totals
Residential	495	591	430	400	390	363	2,949
Non-Residential	1,327	1,084	224	0	116	0	2,751

Projected Projects (Potentially vested under current fees):

Residential: 302, Non-Residential: 106

EDUs	2006	2007	2008	2009	2010	2011	totals
Residential	35	132	10	40	40	45	302
Non-Residential	0	34	34	38	0	0	106

Total EDUs subject to current fees:

EDUs	2006	2007	2008	2009	2010	2011	totals
Totals	1,857	1,841	698	478	546	408	5,828

Potential Projected Projects (Required to pay new Fees)

Residential: 5,724

Non-Residential: 815

EDUs	2006	2007	2008	2009	2010	2011	Totals
Residential	0	303	1,168	1,458	1,398	1,397	<b>5,724</b>
Non-Residential	0	112	255	140	175	133	<b>815</b>

Total EDUs subject to new fees:

EDUs	2006	2007	2008	2009	2010	2011	totals
Totals	0	415	1,423	1,598	1,573	1,530	<b>6,539</b>

The data above was developed based on the following assumptions:

1. Projected Capacity Utilization numbers generated from Steve Mitchell's March 21, 2006 e-mail.
2. The analysis does not account for market fluctuations.
3. Total Near-term Capacity Study (March 2006) estimated **12,728 EDUs** could potentially connect by 2011 (7,728 vested + 5,000 non-vested).
4. The Capacity Utilization Study projects that **12,367 EDUs** could potentially connect by 2011 (5,853 vested + 1,052 projected + 5,462 non-vested).
5. Differences in the Near-Term Capacity estimates and the Capacity Utilization Study estimates can be attributed to differences in the actual "phasing" of commercial/industrial projects. The Near-Term study accounted for developments as a whole, whereas, the Capacity Utilization Study estimated when portions of these developments would contribute flow to the sewer system, which could extend past 2011, such as miscellaneous non-residential infill project, which are projects where no additional entitlements are needed.
6. Based on anticipated development within the near-term and a 10th percentile river flow, the City currently will have an effluent disposal deficit of up to 5.3 mgd by 2011.
7. DAF is projected to be online by will add 3.0 MGD of disposal capacity to the treatment system. However, based on 10th percentile river flow, the City is currently 1.6 MGD in deficit, therefore DAF will add 3.0-1.6 = 1.4 MGD disposal capacity.
8. Based on Planning Capacity Utilization projections, disposal capacity of DAF will be exceeded by the time it is on-line in 2008. This is primarily due to the large hospital projects (Memorial and Kaiser in 2006/2007).