APPENDIX S **Sewer Capacity based Projects for Capital Improvement Plan from the Wastewater Master Plan 2014**

City of Chula Vista
Wastewater Collection System Master Plan – FINAL

Job No. 120.CHUL.0001.01



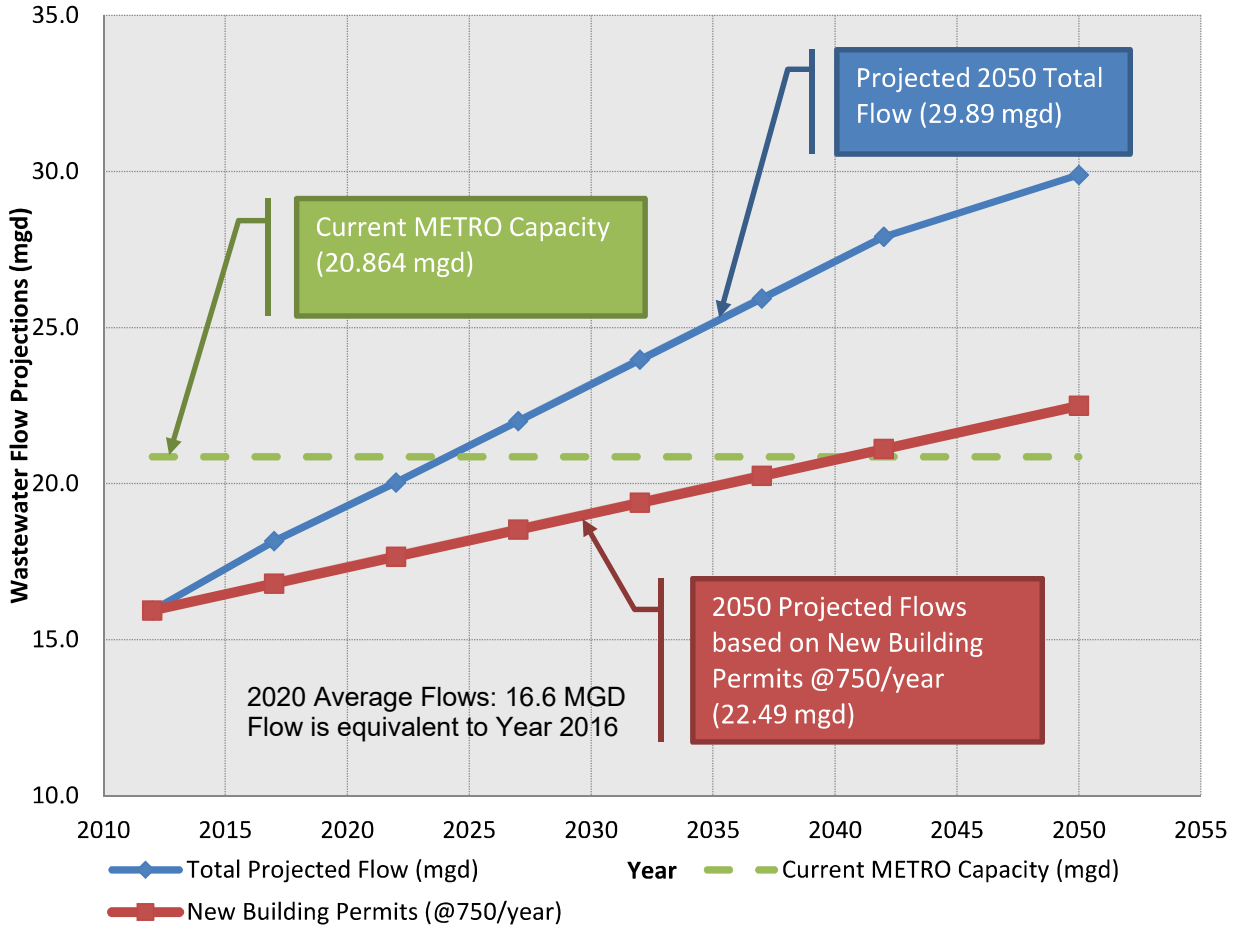
CITY OF CHULA VISTA

REPORT BINDER

MAY 2014

Infrastructure ENGINEERING CORPORATION

Figure ES-F1: Projected Wastewater Flows



Based on the Approved 2005 General Plan including General Plan Amendments in 2013, 2013 Otay Ranch General Development Plan Projections and the San Diego Association of Governments (SANDAG) population Projections, the estimated average City wastewater flow rate at 2050 is 29.89 mgd. The City requested using an average of 750 new building permits per year based on the 2010-2013 City's Permit Plus database, the growth is much slower, resulting in approximately 22.49 mgd in 2050. Table ES-T1 provides SANDAG population projections in relation to the projected flow.

It should be noted that this master plan update has included the area in the county known as Village 13; however, estimated flows from this development were not included as part of the City's hydraulic model, flow projections, CIP analysis, treatment capacity needs, nor Sewerage Capacity Charge calculation. It is assumed that once the county development has been defined and authorized, the county will update the necessary documents.

Table 7-3: Recommended Pipeline/Manhole Improvements

Project ID	Area Map No.	Length (ft)	Diameter (in)	Year Proposed	Planning Project Cost	Existing Projects to be Removed from CIP Connection Fees (2013)	Developer Imposed Fees (DIF)
P1	2	997	15	2013	$309,000	$309,000	$0
P2	2	2,503	21	2042	$1,053,600	$0	$0
P3	6	661	12	2042	$167,800	$0	$0
P4	6	1,304	10 & 12	2017	$301,000	$0	$0
P5	11	65	10	2017	$22,500	$0	$0
P6	3	1,642	12 & 15	2050	$432,200	$0	$0
P7	3	788	12	2027	$242,000	$0	$0
P8	4	469	15	2,042	$156,100	$0	$0
P9	4	1,314	18 & 24	2013	$513,600	$513,600	$0
P10	5	3,180	18	2013	$1,148,500	$1,148,500	$0
P11	7	984	10 & 12	2017	$242,400	$0	$0
P12	7	655	10	2042	$136,500	$0	$0
P13	13	6,216	12 & 15 & 24	2013	$2,144,900	$2,144,900	$0
P14	14	1,227	21 & 24	2017	$516,900	$0	$0
P15	15	3,462	21	2022	$1,462,100	$0	$0
P16	8	962	12	2017	$247,300	$0	$0
P17	9	2,701	15	2017	$833,400	$0	$0
P18	10	1,508	12 & 15 & 18	2013	$447,200	$447,200	$0
P19	4	773	15	Developer Exaction Fee	$0	$0	$254,100
P20	20	289	15	2017	$93,700	$0	$0
P21	21	992	15	2017	$317,700	$0	$0
P22	22	341	15	2013	$113,800	$113,800	$0
P23	23	728	12	2013	$198,200	$198,200	$0
P24	23	111	8 & 10	2017	$31,500	$0	$0
P25	25	621	10	2032	$139,800	$0	$0
P26	26	1,348	21	POGGI DIF	$0	$0	$625,800
P27	27	1,201	12	2037	$317,400	$0	$0
P28	16	2,544	21	2037	$1,085,300	$0	$0
P29	28	1,163	15	Developer Exaction Fee	$0	$0	$387,400
P30	29	174	18	Developer Exaction Fee	$0	$0	$80,400
P31	18	396	15	2013	$124,900	$124,900	$0
P32	17	99	12	2050	$32,900	$0	$0
P33	19	375	12	2037	$106,700	$0	$0
P35	22	724	15	2017	$225,000	$0	$0
P36	24	949	12	2037	$244,100	$0	$0
P37	24	1,490	12	2017	$379,200	$0	$0
P38	3	547	15	2032	$188,600	$0	$0
P39	4	907	27	2,050	$492,400	$0	$0
P40	4	58	36	2050	$440,300	$0	$0
P42	29	394	18	2027	$0	$0	$146,600
P43	29	3,237	18	2032	$0	$0	$1,233,400

Pipe ID Projects: P9, P10, and P26 are in design and funded or construction.
Pipe ID Projects: P1 and P31 require remodeling for confirmation of constraints, capacity is ok with existing flows.
Pipe ID Projects P13, P22, and P23 are being remodeled as the parallel pipe was not modeled and capacity is believed to be acceptable.