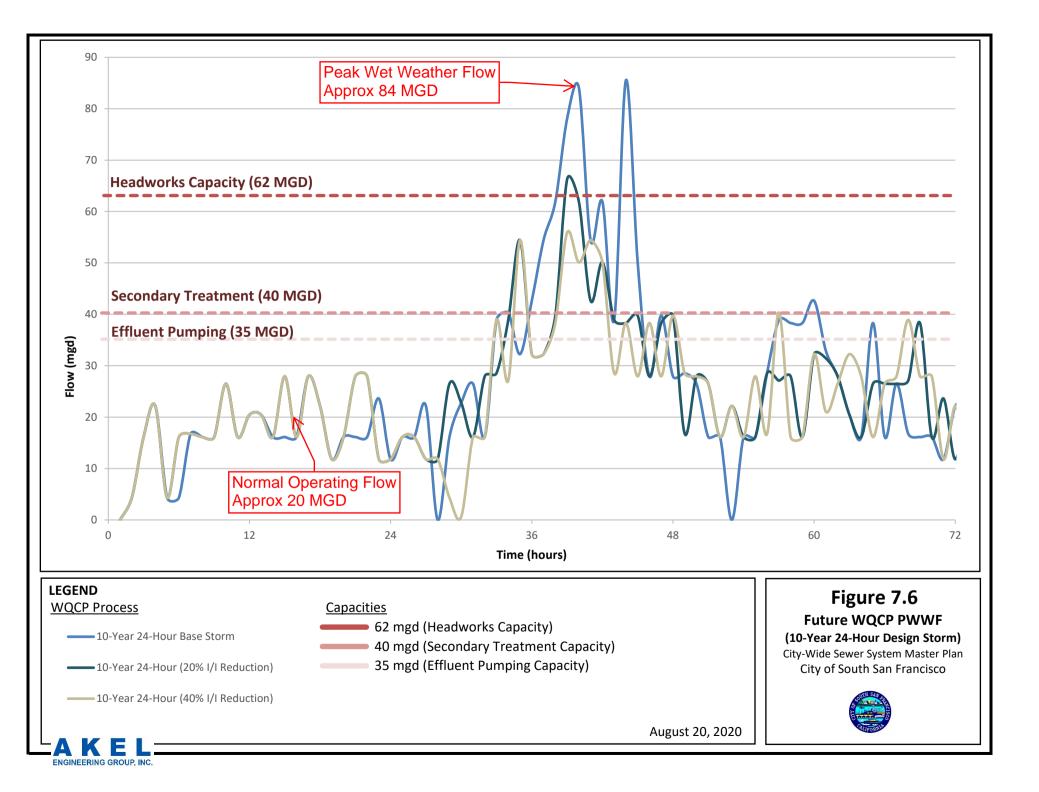
ATTACHMENT 4

CITYWIDE SEWER MASTER PLAN EXCERPTS



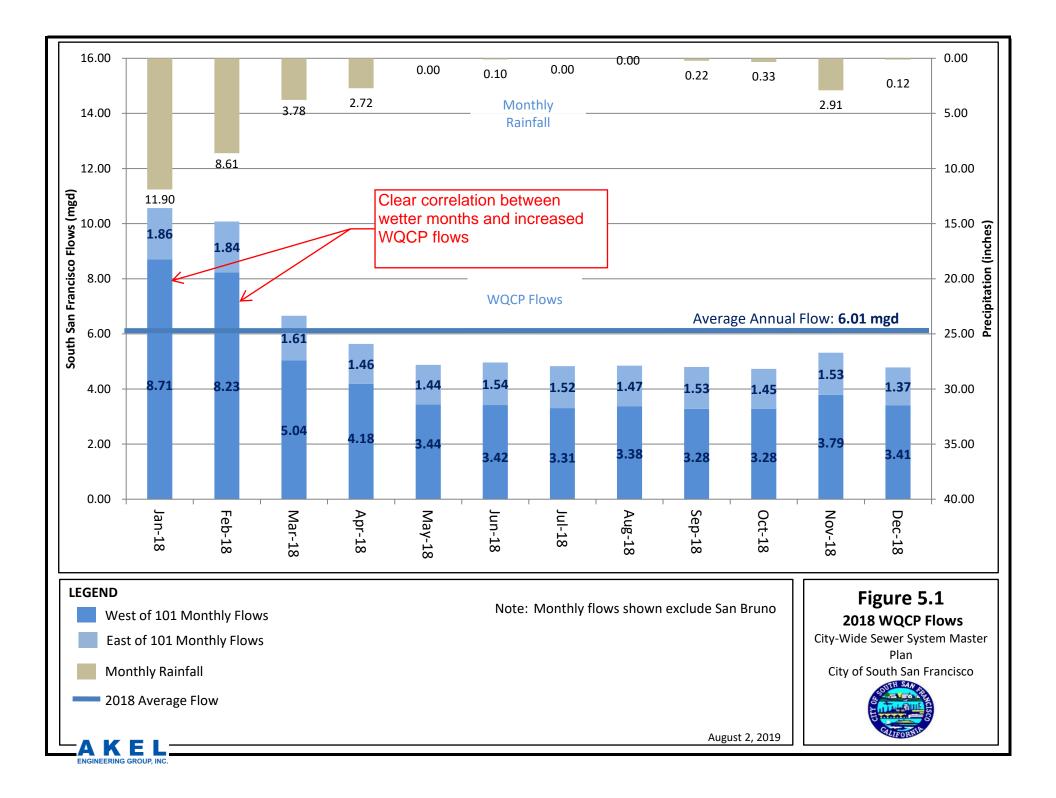


Table 5.2 Historical Flow Statistics (West of 101)

City-Wide Sewer System Master Plan City of South San Francisco

Year	Average Annual	Seasonal Average		Monthly Average		Maximum Day					
		ADWF	AWWF	PMDWF	PMWWF	MDDWF	MDWWF				
	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)				
Historical Flows											
2012	4.48	3.91	4.89	3.95	6.71	5.30	18.92				
2013	3.88	3.81	3.94	3.91	4.31	5.76	6.56				
2014	4.31	3.88	4.63	3.95	7.51	5.38	25.25				
2015	3.73	3.43	3.95	3.47	4.41	4.57	12.57				
2016	4.19	3.54	4.65	3.62	5.99	4.43	15.17				
2017	4.43	3.36	5.20	3.44	8.71	4.70	24.52				
2018	3.89	3.57	4.12	3.67	4.60	4.76	19.21				
Historical Peaking Factors (Applied to ADWF)											
2012	1.15	1.00	1.25	1.01	1.72	1.36	4.84				
2013	1.02	1.00	1.03	1.03	1.13	1.51	1.72				
2014	1.112	1.00	1.19	1.02	1.94	1.39	6.51				
2015	1.088	1.00	1.15	1.01	1.29	1.33	3.66				
2016	1.183	1.00	1.31	1.02	1.69	1.25	4.29				
2017	1.318	1.00	1.55	1.02	2.59	1.40	7.29				
2018	1.089	1.00	1.15	1.03	1.29	1.33	5.38				
Recommended Evaluation Peaking Factor											
	_		1.30	1.03	2.00	<mark>1.40</mark> ↑	6.50				
AKEL ENGINEERING GROUP, INC. 2/26/202											
Notes: 1 Historical flows extracted from WOCR data received from City staff lune 19, 2019 4.6 times greater											
	lows extracted from WQCP er months include months f			than Dry Weather							
•	er months include months			Peak Flows							

4. Flows for the City of San Bruno are not included in the historical flows and were estimated based on Pump Station 11 inflows and flows recorded at Flow Monitor 7. An analysis of these flows indicated approximatley 80% of the flows at Pump Station 11 are contributed by the City of San Bruno.

Table 5.3 Historical Flow Statistics (East of 101)

City-Wide Sewer System Master Plan City of South San Francisco

Year	Average Annual	Seasonal Average		Monthly Average		Maximum Day				
		ADWF	AWWF	PMDWF	PMWWF	MDDWF	MDWWF			
	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)			
Historical Flows										
2012	1.63	1.56	1.67	1.60	1.88	1.96	3.16			
2013	1.61	1.62	1.61	1.67	1.66	1.96	1.97			
2014	1.63	1.58	1.67	1.61	1.94	1.89	3.17			
2015	1.57	1.56	1.57	1.62	1.64	1.91	2.18			
2016	1.52	1.43	1.58	1.45	1.74	1.70	2.37			
2017	1.55	1.50	1.59	1.54	1.86	1.82	2.99			
2018	1.34	1.27	1.40	1.31	1.53	1.53	2.48			
Historical Peaking Factors (Applied to ADWF)										
2012	1.04	1.00	1.07	1.02	1.20	1.25	2.02			
2013	1.00	1.00	1.00	1.03	1.03	1.22	1.22			
2014	1.03	1.00	1.06	1.02	1.23	1.20	2.01			
2015	1.00	1.00	1.00	1.04	1.05	1.22	1.39			
2016	1.06	1.00	1.10	1.02	1.22	1.19	1.66			
2017	1.03	1.00	1.06	1.03	1.24	1.22	1.99			
2018	1.06	1.00	1.10	1.03	1.20	1.20	1.95			
		Re		luation Peaking F						
			1.10	1.04	1.25	1.25	2.00			
AKE	L									
ENGINEERING GROUP, INC. 2/26/3										
Notes: 1. Historical fl	ows extracted from WQCP	data received from Cit		1.6 times greater						
2. Dry weath	er months include months f	rom May to Septembe		han Dry Weath	er					
3. Wet weath	er months include months f	from October to April.		Peak Flows						