





Storm Drain Rate Study

City of Davis Utilities Commission October 21, 2020





Steps

- Introduction to Stormwater Rate Setting (May 20)
 - Prop 218 Quirks
- Financial Analysis (June 17)
 - Revenue Requirement
- Preliminary Rates (July 15)
 - Method & Structure
 - Rate Ranges
 - Political Realities

• Draft Rate Study & Recommendation to City Council

Future Tasks

- City Council Consideration
- Prop 218 Implementation
- Public Outreach



Stormwater Fee Study (Fee Report)

- Define Facilities and Services
- 2. State Revenue Requirement
 - Operations
 - Regulatory
 - Capital
- 3. Establish Apportionment
 - Structure
 - Prop 218-Compliant
- 4. Fee Schedule
 - First Year Rates
 - Inflationary Factor for Future Years



CITY OF DAVIS

DRAFT FEE REPORT

STORMWATER FEE

OCTOBER 2020

PURSUANT TO THE ARTICLES XIIIC & D OF THE CALIFORNIA CONSTITUTION, AND THE GOVERNMENT CODE SECTIONS 38900 – 38901 ET AL.

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Facilities & Services

FACILITIES AND SERVICES

The City operates and maintains a municipal separate storm sewer system within the City's boundaries. The system is made up of man-made drainage systems including, but not limited to, curbs and gutters, integrated storm drainage pipes, inlets, outfalls, culverts, channels, pump stations, force mains, detention ponds, siphons and access roads. The system serves the entire City.

The primary storm drainage service provided by the City is the collection, conveyance, and overall management of stormwater and non-stormwater runoff from parcels.

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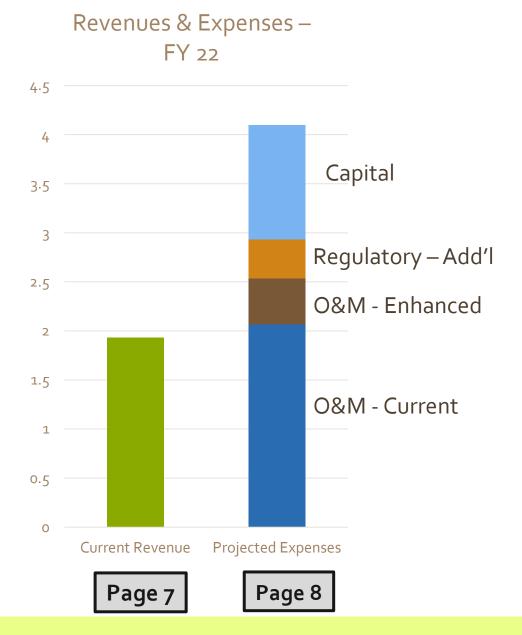
By definition, all parcels that shed stormwater into the City's system, either directly or indirectly, utilize, or are served by, the City's storm drainage system. The need and necessity of this service are derived from property improvements, which historically have increased the amount of stormwater runoff from the parcel by constructing impervious surfaces such as rooftops, pavement areas, and certain types of landscaping that restrict or retard the percolation of water into the soil beyond the conditions found in the natural, or unimproved, state. As such, open space land (in a natural condition) and agricultural lands that demonstrate stormwater absorption equal to or greater than natural conditions, are not charged a fee. Other vacant land that was once improved or has been prepared for future improvements do not qualify as open space or natural land and will typically be charged a fee.

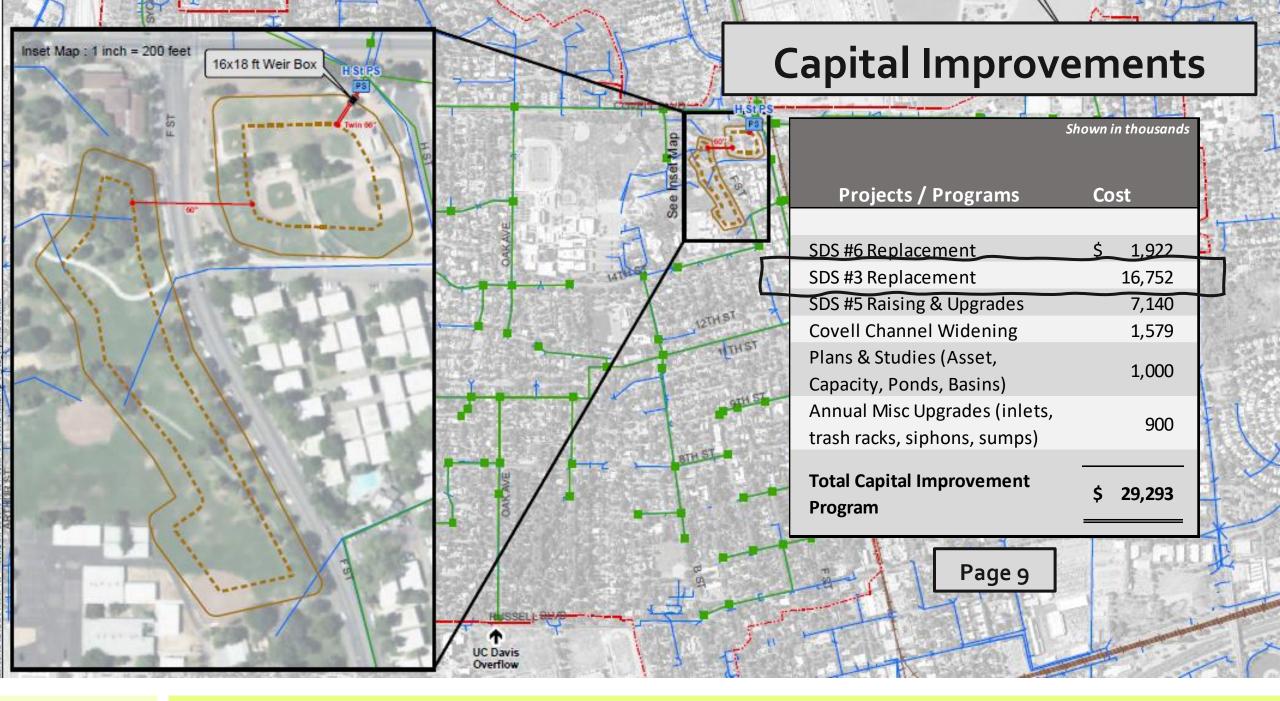
RUSSELL BLVD

Revenue Requirements FY 22

EXPENSES

- \$2.07 m Baseline O&M
- \$0.87 m Additional O&M Needs
- \$29.3 m Capital Needs
- ******
- Convert to Annual Revenue Requirement
- Apply a 30-year rate model
- ******
- \$4.10 m Revenue RequirementFY 22





30-year Model

- Utilities often look at 10- or 20-year horizon
 - Basis for 5-year rate schedule
- Stormwater Rates extend well beyond 5-year window
- Some debt runs up to 30 years
- Elements
- Assumptions



Escalation Rates				
Revenues	2.60%	Based on Consumer Price Index ("CPI")average over past 30 years, with an annual cap of 3% and "banking" allowed		
O & M Costs	2.78%	Based on the "Leland Model" with personnel at 3.26% and other operating costs at 2.0%		
CIP Costs	2.60%	Based on Construction Cost Index average over past 30 years		
Interest Earned	Interest Earned			
Reserve Interest	2.00%	As recommended by City staff		
Debt Assumptions	Debt Assumptions			
Interest	4.00%			
Debt Issuance Cost	2.00%			
Debt Reserve Amount		One year's debt service		
Debt Service Structure		Level payments		
Debt Service Coverage	110%	Ratio of pledged revenue to debt service		

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Rate Comparisons

- Family A D
 - \$29 m CIP in 30-years
 - Rates not phased in
- Family E F
 - \$29 m CIP in 30-years
 - Rates phased in (5 or 10 yrs)
- Family G H
 - Partial CIP in 30-years
 - \$20 m / \$10 m
 - Rates phased in (10 yrs)
- Line I
 - Minimal CIP
 - Rates not phased in
 - Rates increase @ 2.78% fixed



Revenue Recommendation

• Average of four basic scenarios (A - D)

Pros

- Includes full \$29.3 m CIP
- Allows early CIP and Reserve implementation
- Not sensitive to if (how much) debt is used
 - Allows City flexibility in applying debt / delivering projects

Cons

- Rates are 2x current rates
 - Community Acceptance



Rate Calculation – Single-Family Equivalent (SFE)

SFE = 3,486 sf Impervious Area
Meets Proposition 218 Requirement

Res Category	Imperv Area	SFE
Small	2,710 sf	0.78
Medium	3,468 sf	1.00
Large	4,622 sf	1.33
Very Large	5,156 sf	1.49
Condo-Med Density	2,257 sf	0.65
Condo-Hi Density	1,045 sf	0.30

Non-Res Category	% I A	SFE / ac
Apartment	63.3%	7.95
Commercial	83.8%	10.53
Office	69.1%	8.68
Institutional	59.7%	7.50
Instit w/ field	41.9%	5.26
Park / Vacant	5%	0.63

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Convert Revenue Requirements to Rates

- Total SFEs = 26,090
- Revenue Requirement = \$4.1 m
- Rate = $(\$4.1 \, m/26,090 =) \$157.15 \, per \, year$
 - \$13.10 per month for average home

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			Proposed Monthly Rate			
Land U	se Category		FY 2022			
Residential *						
Small	Under 0.14	ас	\$	10.23	per parce	
Medium	0.14 to 0.22	ас	\$	13.10	per parcel	
Large	0.23 to 0.27	ас	\$	17.45	per parcel	
Very Large	Over 0.27	ас	\$	19.47	per parcel	
Condo - 1 Le	evel		\$	8.52	per parcel	
Condo - 2+ I	_evels		\$	3.95	per parcel	
Non-Residenti	al **			>		
Mobile Hon	ne Park		\$	98.20	per acre	
Apartment			\$	104.08	per acre	
Comm / Ind	ustrial / Retail		\$	137.86	per acre	
Office			\$	113.63	per acre	
Institutional			\$	98.20	per acre	
Institutional w/ Field			\$	68.89	per acre	
Park			\$	8.22	per acre	
Vacant (developed)			\$	8.22	per acre	
Open Space / Agricultural				not cha	arged	

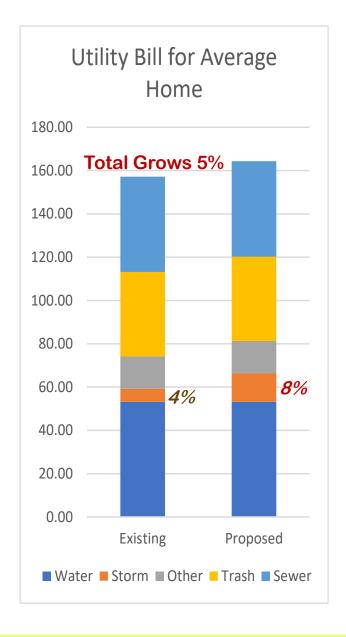
^{*} Single-Family Residential category also includes du-tri- and four-plex units

^{**} Non-SFR parcels size is calculated to a hundredth of an acre

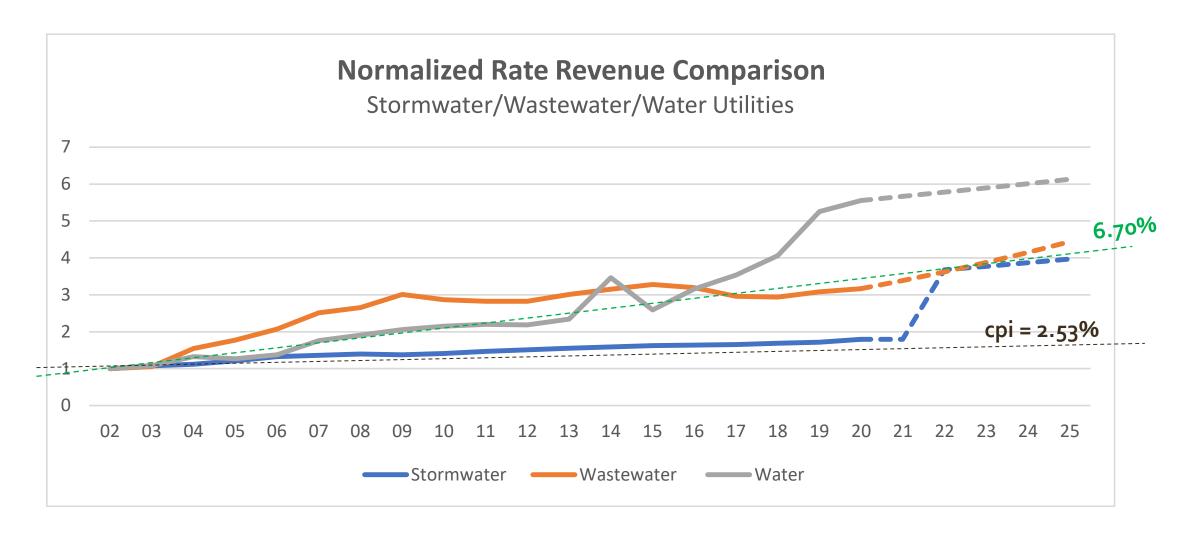
Context of Other City Utilities

Average SF Customer Utility Bill

Water Charges	Water Base Charge (Meter Size)	\$	13.07
water charges	Water Consumption Charge		40.08
Stormwater Charges	Storm Drainage		3.43
Storillwater Charges	Sanitary Sewer (Drainage Water Quality)*		1.46
Non-PWUO Charges	Municipal Service Tax*		8.43
	Public Safety Charge*	\$	6.61
Solid Waste Charge	65 gal garbage	\$	38.95
	Sewer Base Charge	\$	3.94
Sewer Charges	Sewer Volume Charge		21.91
	Sewer Per Unit Charge	\$	18.26
		\$	156.14



Rate History



Other Rate Considerations

- Credit for Low Impact Development (LID)
 - 25%
 - Mostly for new development

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- Inflationary Factor
 - Equal to Consumer Price Index (CPI-U, SF Bay Area)
 - Not to exceed 3% in any single year
 - Excess CPI can be "banked" and used later
 - Keeps future rate increases capped



Next Steps

- Tonight
 - Commission Determines Rate Recommendation to Council
- Council to Receive Report
 - Likely two meetings:
 - Study session
 - Formal Action (begin Prop 218 Process)
- Prop 218 Process (4+ months)
 - Notice of Hearing
 - Conduct Hearing
 - Mail Ballots
 - Tabulate Ballots
 - Concluding Action by Council

- Community Engagement
 - Stakeholders Outreach
 - Community Meetings
 - During 45-day Notice Period
 - Media Outreach
 - Social
 - Print
 - Mail (prop 218 Mailings)
 - Other Channels

