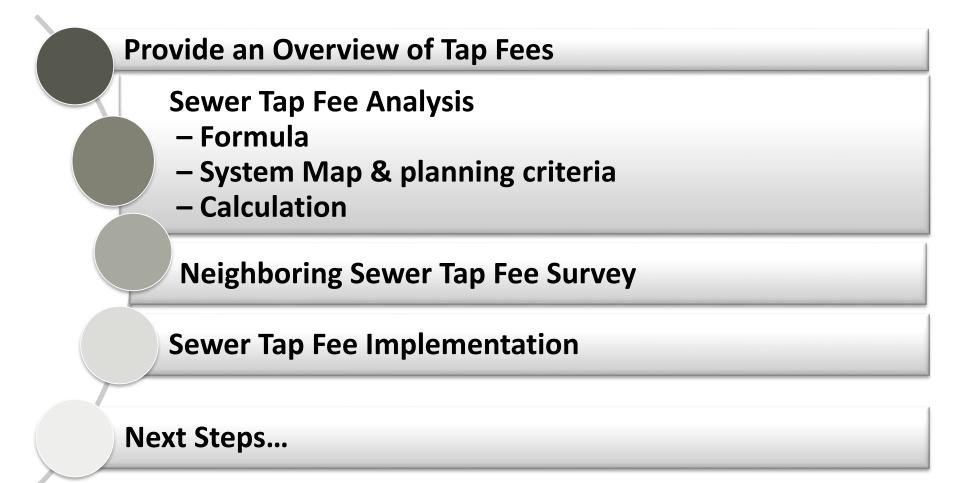


# City of Lee's Summit Sewer Tap Fee Study



#### **Overview of the Presentation**



# **Tap Fees**

#### Overview

#### Existing sewer connection fees

- Ordinance 32-312. Established that Sewer Connection fees are \$30 per drain exclusive of the floor drain. The ordinance limits the maximum number of drains at 100 per permit.
- Chapter 32. Article IV. Division 5. Sewer Improvement Fees established two watershed impact fees for Middle Big Creek and Maybrook watersheds.
  - Middle Big Creek Watershed Sewer Impact Fee was adopted in September of 2004and set at \$33.48/drain and limited to 100 drains per permit.
  - Maybrook Watershed Sewer Impact Fee was adopted in June of 2006 and set at \$42.61/drain and limited to 100 drains per permit.
  - Middle Big Creek & Maybrook fees are restricted to improvements specific to each watershed.

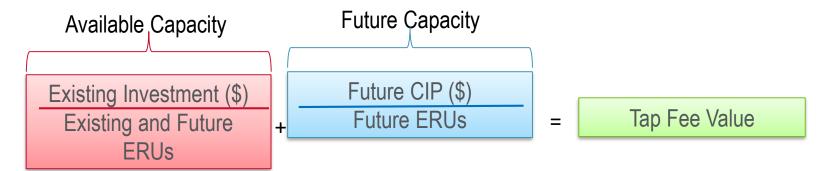
# **Tap Fees**

#### Overview

- Tap fees recover the costs of the invested available capacity + planned future growth capital projects needed to serve a new connection on a proportionate share based on the "valuation" of the system in today's dollars
  - Utilities make investments in capacity in advance of new customers connecting
  - Timing of tap fee revenue does not coincide with the Utilities capital investment
  - Tap fees provide <u>mechanism for recovering costs</u> from past investment <u>to be used</u> towards future investment capital
  - Without tap fees the full cost is recovered through rates
- Valuation of system has three methods:
  - Buy-in Method = available capacity in the system; no need for future growth capital
  - Incremental Method = no capacity available in existing system; includes capacity to serve new growth only
  - Combined Method (Buy-in + Incremental) = available capacity in the system <u>plus</u> portion of future capital needed to add new customer (method used)

# Tap Fees

#### Formula



#### Value of Existing Investment:

- Original cost, plus ENR-CCI from installment date; <u>less contributions (grants, developer funded)</u>
- Less outstanding debt principal (avoid double count for new rate customer)

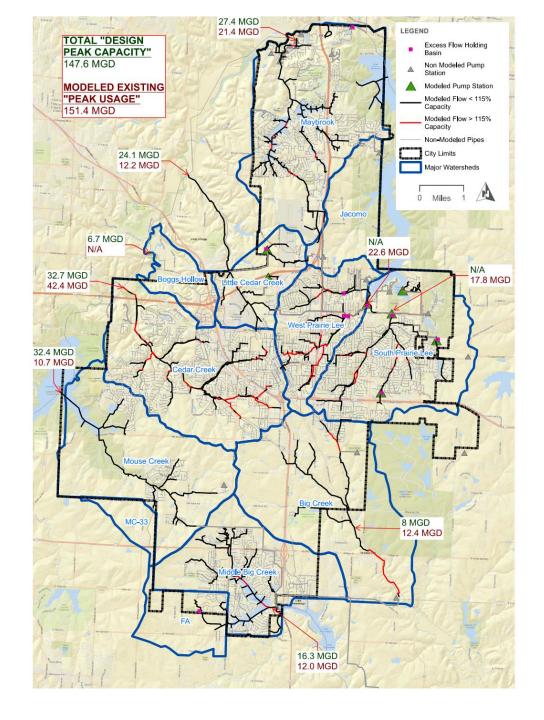
#### Value of Future CIP:

- CIP Plan (Current Facility/Master Plans)
- Proportion of the project to service growth

#### Existing and Future ERUs:

- Total system flow ÷ <u>average daily flow in gallons</u> per ERU
- Tap Fee is system value at one point in time:
  - ✓ <u>Update tap fee annually</u> based on an established cost index such as Engineering News Record Construction Cost Index (no more than five years)
  - ✓ Update tap fee every five years or when new planning documents adopted

# Sewer Tap Fees System Map



# **Sewer Tap Fees**

### **System Planning Criteria**

Sewer System							
Description	Average Daily Flow Capacity (MGD)	Average Daily Flow (gpcd)	Total ERUs				
Equivalent Residential Units – Existing	11.153	275	40,555 75.6%				
Equivalent Residential Units – Future	<u>3.607</u>	275	<u>13,118</u> 24.4%				
Total ERUs	14.760	L	53,673				

- Existing ERUs based on active customers on an ERU basis
- Existing system estimated at 75.6% build out
- Future ERUs based on average daily flow identified in WW Master Plan

# **Sewer Tap Fees**

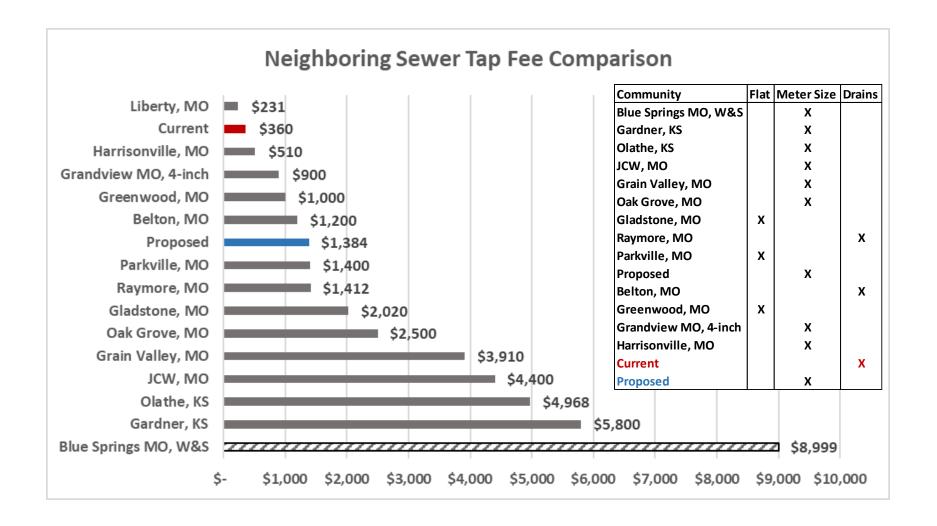
#### **Calculation – System Wide Value**

Sewer Tap Fee Calculation Results							
	Existing Investment (\$ / 1,000)	Total ERUs	Existing Investment \$/ERU	Future Plant (\$ / 1,000)	Future ERUs	Future \$/ERU	Tap Fee \$/ERU
Interceptors	\$14,351	53,673	\$267	\$4,600	13,118	\$351	\$618
Collection	<u>0</u>	53,673	<u>0</u>	<u>10,043</u>	13,118	<u>766</u>	<u>766</u>
Total	\$14,351		\$267	\$14,643		\$1,117	\$1,384
Tap Fee			\$267			\$1,117	\$1,384

Current Fee \$360 Difference \$1,024

- Existing investment in 2021 \$ (available capacity)
  - Does not include developer or grant contributions
  - Includes recent existing interceptors only
- Future capital plan is approximately \$45.3 million; \$14.6M specific expansion projects
- Current fee \$30.00 per drain X 12 drain units = \$360

# **Sewer Tap Fees**



# **Proposed Sewer Tap Fees**

# Implementation – System Wide

		Meter	Capacity	Calculated			
Meter Size	Meter Type	Capacity <sup>1</sup> (gpm)	Mulitplier <sup>2</sup> (CM)	Tap Fee			
5/8" x 3/4"	Displacement	15	1.0000	\$1,384			
3/4"	Displacement	25	1.6676	2,309			
1"	Displacement	40	2.6676	3,693			
1 1/2"	Displacement	50	3.3338	4,615			
2"	Displacement	100	6.6676	9,230			
2"	Compound	160	10.6676	14,768			
3"	Compound	320	23.3338	32,303			
4"	Compound	500	40.0000	55,375			
6"	Compound	1,000	83.3338	115,365			
8"	Compound	1,600	120.0000	166,124			
10"	Compound	2,300	153.3338	212,271			
<ol> <li>Source for capacity figures:         AWWA M6 Water Meters - Selection, Installation, Testing and Maintenance 1999         Table 5-3, pp 54-55.</li> </ol>							
<ol> <li>Capacity Multiplier (CM) = meter capacity relative to a 5/8 x 3/4" displacement type me Sample calculation for a 3/4" displacement meter: 25/15 = 1.67</li> <li>Sample Tap Fee calculation for a 3/4" displacement type meter:</li> </ol>							

- System wide (New Approach)
- Based on water meter size not number of drains (New approach)

# **Questions?**

