# Rate Structure Analysis Workbook

**Overview:**

**How to use this Workbook:**

**Estimating Total Revenue**

Instructions are listed below for completing the "Data Inputs" and "Rate Calculations" worksheet, with details li

**Worksheets**

24-Aug-18

This workbook was developed by the Environmental Finance Center (EFC) at California State University, Sacran

The workbook includes a sheet for entering inputs on community characteristics, and sheet that performs calcu

Once all the data inputs are completed (see detailed instructions below), the primary decision parameter is the

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sted by column name

## 1) Data Inputs

The "Data Inputs" tab lists data necessary for calculating estimates of potential revenue

| | | |
|---|---|---|
| Inputs, by data topic | ***Water Use, Lot Size, and Imperviousness*** | Data on community water use ass |
| | ***Water and Sewer Rates*** | Data for municipal water and was |
| | ***Socio-demographic and Income*** | Data for Median Household Incon |
| | ***Other Inputs and CPI Adjustments*** | Data for additional inputs, includi |

## 2) Rate Calculations

The "Rate Calculations" tabs automatically calculate the projected revenue for a 5-year time period based on ir

**Input Parameter in Green**

In both of the Rate Calculations worksheets, the sole input variable is the Year 1 tarriff rate in cell F7 (in dark gr
The table starting in line 17 reports the estimated financial impacts of the tarriffs on households with the lowe

ıento (Sacramento State) for municipalities and rural communities in EPA

ılations of potential revenues based on municipal area characteristics, and a

: amount of the Tariff in cell F7 of the "Rate Calculations- ERU" and "Rate

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ımptions (indoor), household size, lot size, and imperviousness. These are
tewater utility billing rates. Collected from publicly-available sources
ıe, based on analying 2014 U.S. Census American Community Survey (ACS)
ng inflation rates for indexing past values to current dollars based on the

ıputs from the "Data Inputs" tab and the selected tarriff rate.

·een), as identified in the spreadsheet. The resulting projected annual
st reported MHI (Block Group level). The "Disparity" line reports the financial

INPUTS

Utility Area Inputs

**Water Use, Lot, and Imperviousness**

| *Parameter* | *Value* |
|---|---|
| Daily Indoor Use (gal) | 55 |
| Avg SF Lot Size (sq-ft) | 16,000 |
| Median SF Lot Size (Sq-Ft) | 8,000 |
| Avg MF Lot Size (sq-ft) | 9,000 |
| Median MF Lot Size (Sq-Ft) | 6,000 |
| | |
| | |
| | |
| | |

Other Inputs

| *Parameter* | *Value* |
|---|---|
| Inflation Rate | 3% |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

**Land Use Data**

| *Land Use Type* | *Number of Properties* |
|---|---|
| # SF Properties | 7,000 |
| # MF Properties | 2,000 |
| # Commercial | 500 |
| # Industrial | 40 |
| # Other | 3,000 |

**ERU Data from Sample Set (~1000 Properties)**

| *Land Use Type* | *Avg Impervious %* |
|---|---|
| # SF Properties | 45 |
| # MF Properties | 65 |
| # Commercial | 70 |
| # Industrial | 40 |

**CPI Adjustments**

| *Year* | *Historic Inflation* |
|---|---|
| 2014 ACS MHI | |
| CPI Adjustments | |
| US 2015 | 2.11% |
| US 2016 | 2.07% |
| US 2017 | 0.73% |
| | |
| | |
| | |

| Persons/HH |
|---|
| 3 |
| 3 |
| n/a |
| n/a |
| n/a |

**Reported Water and Sewer Rates for Utility**

| Year | Water Supply Flat Rate |
|---|---|
| 2017 | $ 4.00 |
| 2018 | $ 4.50 |
| 2019 | $ 5.00 |
| 2020 | $ 5.50 |
| 2021 | $ 6.00 |

| Median Impervious Area (sq-ft) |
|---|
| 4,000 |
| 2,500 |
| 8,000 |
| 14,000 |

**Assumed Stormwater Fee Rate Increases**

| | |
|---|---|
| Annual Increase | 2% |

| MHI |
|---|
| $ 32,000.00 |
| |
| $ 32,675.20 |
| $ 33,351.58 |
| $ 33,595.04 |
| |
| |
| |

| Published % Increase | Water Variable Rate ($/100 cu-ft, 748 gal) | Sewer Rate | Monthly Total |
|---|---|---|---|
| | $ 7.00 | $4.50 | $ 54.82 |
| 13% | $ 7.25 | $5.40 | $ 57.88 |
| 11% | $ 7.50 | $6.30 | $ 60.93 |
| 10% | $ 7.75 | $7.35 | $ 64.14 |
| 9% | $ 8.00 | $7.80 | $ 66.74 |

**Socio-Demographic and Income Characteristics**

| *Indicator* | *Value* |
|---|---|
| Lowest ACS MHI (blockgroup), 2014 | $32,000 |
| Lowest ACS BG MHI, CPI Adj. to 2018 | $33,595 |
| *MHI Brackets* | |
| 0-10% | |
| 10-20% | |
| 20-30% | |
| 30-40% | |
| 40-50% | |
| 50-60% | |
| 60-70% | |
| 70-80% | |
| 80-90% | |
| 90-100% | |

The following tabs in this section (yellow) show preliminary calculations for revenues associated with various rate structure approaches

In all spreadsheets, the only user input to change is marked by the "<< input decision variable" notation, either an ERU tarriff rate or a desired total amount of money

ERU: Equivalent Residential Unit method

**RATES ANALYSIS: Based on an Equivalent Residential Unit of Imperviousness (Single Rate)**

6/27/2018

*CSUS Office of Water Programs*
*Environmental Finance Center*

**PROGRAM REVE**

| |
|---|
| |
| Residential |
| Commercial & Mixed Use |
| Industrial |
| TOTALS |

**TOTALS ACROSS**

| |
|---|
| |
| SF Residential |
| MF Residential |
| Commercial & Mixed Use |
| Industrial |
| TOTALS |

**HOUSEHOLD AFI**

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**ERU Structure**

| Tiers (Changes by Property Type) | # of SF Properties |
|---|---|
| 1 ERU | 4000 |
| 2 ERUs | 2000 |
| 3 ERUs | 1000 |

**NUE PROJECTIONS***

| Year | | 1 |
|---|---|---|
| Estimated Charge (based on 55 gpd indoor, sewer) | $ | 54.82 |
| Stormwater Tarriff (1 ERU) | $ | 2.15 |
| Monthly Bill Estimate (w/ reported rate increases) | $ | 56.97 |
| Annual Bill Estimate (w/ reported rate increases) | $ | 684 |
| *Subtotal: Revenues from SF Properties* | $ | 283,800 |
| *Subtotal: Revenues from MF Properties* | $ | 82,560 |
| *Subtotal: Revenues from Comm-MU Properties* | $ | 67,080 |
| *Subtotal: Revenues from Industrial Properties* | $ | 2,116 |
| STORMWATER PROGRAM REVENUE | $ | 435,556 |

**S ERU CATEGORIES**

| Year | | 1 |
|---|---|---|
| Subtotal: ERU Tier 1 | $ | 103,200.00 |
| Subtotal: ERU Tier 2 | $ | 103,200.00 |
| Subtotal: ERU Tier 3 | $ | 77,400.00 |
| Subtotal: ERU Tier 1 | $ | 18,060.00 |
| Subtotal: ERU Tier 2 | $ | 41,280.00 |
| Subtotal: ERU Tier 3 | $ | 23,220.00 |
| Subtotal: ERU Tier 1 | $ | 18,060.00 |
| Subtotal: ERU Tier 2 | $ | 10,320.00 |
| Subtotal: ERU Tier 3 | $ | 38,700.00 |
| Subtotal: ERU Tier 1 | $ | 129.00 |
| Subtotal: ERU Tier 2 | $ | 51.60 |
| Subtotal: ERU Tier 3 | $ | 1,935.00 |
| Total revenue (should match above) | $ | 435,556 |

**FORDABILITY****

| Analysis of Household Affordability | | |
|---|---|---|
| *Associated MHI Threshold for Total Monthly Bill* | | |
| 1% | $ | 68,368.24 |

| # of MF Properties | Commercial | Industrial |
|---|---|---|
| 700 | 700 | 5 |
| 800 | 200 | 1 |
| 300 | 500 | 25 |

| 2 | 3 | 4 | 5 | |
|---|---|---|---|---|
| $ 57.88 | $ 60.93 | $ 64.14 | $ 66.74 | |
| $ 2.19 | $ 2.24 | $ 2.28 | $ 2.33 | << Input Decision Variable |
| $ 60.07 | $ 63.17 | $ 66.42 | $ 69.07 | |
| $ 721 | $ 758 | $ 797 | $ 829 | |
| $ 289,476 | $ 295,266 | $ 301,171 | $ 307,194 | |
| $ 84,211 | $ 85,895 | $ 87,613 | $ 89,366 | |
| $ 68,422 | $ 69,790 | $ 71,186 | $ 72,610 | |
| $ 2,158 | $ 2,201 | $ 2,245 | $ 2,290 | |
| $ 444,267 | $ 453,152 | $ 462,215 | $ 471,459 | |

| 2 | 3 | 4 | 5 |
|---|---|---|---|
| $ 105,264.00 | $ 107,369.28 | $ 109,516.67 | $ 111,707.00 |
| $ 105,264.00 | $ 107,369.28 | $ 109,516.67 | $ 111,707.00 |
| $ 78,948.00 | $ 80,526.96 | $ 82,137.50 | $ 83,780.25 |
| $ 18,421.20 | $ 18,789.62 | $ 19,165.42 | $ 19,548.72 |
| $ 42,105.60 | $ 42,947.71 | $ 43,806.67 | $ 44,682.80 |
| $ 23,684.40 | $ 24,158.09 | $ 24,641.25 | $ 25,134.07 |
| $ 18,421.20 | $ 18,789.62 | $ 19,165.42 | $ 19,548.72 |
| $ 10,526.40 | $ 10,736.93 | $ 10,951.67 | $ 11,170.70 |
| $ 39,474.00 | $ 40,263.48 | $ 41,068.75 | $ 41,890.12 |
| $ 131.58 | $ 134.21 | $ 136.90 | $ 139.63 |
| $ 52.63 | $ 53.68 | $ 54.76 | $ 55.85 |
| $ 1,973.70 | $ 2,013.17 | $ 2,053.44 | $ 2,094.51 |
| $ 444,267 | $ 453,152 | $ 462,215 | $ 471,459 |

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| $ 72,085.13 | $ 75,803.06 | $ 79,702.03 | $ 82,882.09 |

**Blockgroup with Lowest MHI (Most Vulnerable)**

* Based on nomina
** Based on nomin

| | |
|---|---|
| 2% | $ 34,184.12 |
| *Annual Expense of 2018-Adjusted MHI Threshold ($35,432)* | |
| 1% | $ 346.03 |
| 2% | $ 692.06 |
| *Disparity* | |
| 1% | $ 337.65 |
| 2% | n/a |

al costs (in that year) of rates using published rate increases and no additional inflati
al values of Median Household Income values in each year using 3% inflation rate

| | | | |
|---|---|---|---|
| $ 36,042.56 | $ 37,901.53 | $ 39,851.02 | $ 41,441.04 |
| | | | |
| $ 356.11 | $ 366.19 | $ 376.26 | $ 386.34 |
| $ 712.21 | $ 732.37 | $ 752.53 | $ 772.69 |
| | | | |
| $ 364.74 | $ 391.84 | $ 420.76 | $ 442.48 |
| $ 8.64 | $ 25.66 | $ 44.49 | $ 56.13 |

on considerations

**RATES ANALYSIS: Based on an Equivalent Residential Unit of Imperviousness (Graduated Rate)**

6/27/2018

*CSUS Office of Water Programs*
*Environmental Finance Center*

**PROGRAM REVE**

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|---|
| |
| **Residential** |
| **Commercial & Mixed Use** |
| **Industrial** |
| **TOTALS** |

**HOUSEHOLD AFI**

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| |
| **Blockgroup with Lowest MHI (Most Vulnerable)** |

* Based on nomina
** Based on nomin

**ERU Structure**

| Tiers | # of SF Properties |
|---|---|
| 1 ERU | 4000 |
| 2 ERUs | 2000 |
| 3 ERUs | 1000 |

**NUE PROJECTIONS***

| Year | 1 |
|---|---|
| Estimated Charge (based on 55 gpd indoor, sewer) | $ 54.82 |
| Stormwater Tarriff (1st ERU Tier) | $ 2.00 |
| Stormwater Tarriff (2nd ERU Tier) | $ 2.40 |
| Stormwater Tarriff (3rd ERU Tier) | $ 2.88 |
| Monthly Bill Estimate (w/ reported rate increases) | $ 56.82 |
| Annual Bill Estimate (w/ reported rate increases) | $ 682 |
| *Subtotal: Revenues from SF Properties* | $ 288,960 |
| *Subtotal: Revenues from MF Properties* | $ 85,248 |
| *Subtotal: Revenues from Comm-MU Properties* | $ 53,760 |
| *Subtotal: Revenues from Industrial Properties* | $ 2,357 |
| STORMWATER PROGRAM REVENUE | $ 430,325 |

**FORDABILITY****

| Analysis of Household Affordability | |
|---|---|
| *Associated MHI Threshold for Total Monthly Bill* | |
| 1% | $ 68,188.24 |
| 2% | $ 34,094.12 |
| *Annual Expense of 2018-Adjusted MHI Threshold ($35,432)* | |
| 1% | $ 346.03 |
| 2% | $ 692.06 |
| *Disparity* | |
| 1% | $ 335.85 |
| 2% | n/a |

al costs (in that year) of rates using published rate increases and no additional inflati
al values of Median Household Income values in each year using 3% inflation rate

| # of MF Properties | Commercial | Industrial |
|---|---|---|
| 700 | 700 | 5 |
| 800 | 200 | 1 |
| 300 | 500 | 25 |

| 2 | 3 | 4 | 5 | |
|---|---|---|---|---|
| $ 57.88 | $ 60.93 | $ 64.14 | $ 66.74 | |
| $ 2.04 | $ 2.08 | $ 2.12 | $ 2.16 | << Input Decision Variable |
| $ 2.45 | $ 2.50 | $ 2.55 | $ 2.60 | |
| $ 2.94 | $ 3.00 | $ 3.06 | $ 3.12 | |
| $ 59.92 | $ 63.01 | $ 66.26 | $ 68.91 | |
| $ 719 | $ 756 | $ 795 | $ 827 | |
| $ 294,739 | $ 300,634 | $ 306,647 | $ 312,780 | |
| $ 86,953 | $ 88,692 | $ 90,466 | $ 92,275 | |
| $ 54,835 | $ 55,932 | $ 57,051 | $ 58,192 | |
| $ 2,404 | $ 2,452 | $ 2,501 | $ 2,551 | |
| $ 438,931 | $ 447,710 | $ 456,664 | $ 465,797 | |

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| $ 71,901.53 | $ 75,615.78 | $ 79,511.02 | $ 82,687.25 |
| $ 35,950.76 | $ 37,807.89 | $ 39,755.51 | $ 41,343.62 |
| | | | |
| $ 356.11 | $ 366.19 | $ 376.26 | $ 386.34 |
| $ 712.21 | $ 732.37 | $ 752.53 | $ 772.69 |
| | | | |
| $ 362.91 | $ 389.97 | $ 418.85 | $ 440.53 |
| $ 6.80 | $ 23.79 | $ 42.58 | $ 54.19 |

on considerations

**RATES ANALYSIS: Based on identifying a desired annual program revenue and calculating the associated ERU**

6/27/2018

*CSUS Office of Water Programs*
*Environmental Finance Center*

**ERU for DESIRED**

| |
|---|
| **Desired Total** |
| **Residential** |
| **Commercial & Mixed Use** |
| **Industrial** |
| **ERU** |
| **Existing Bill** |
| **New Bill** |

**TOTALS ACROSS**

| |
|---|
| **SF Residential** |
| **MF Residential** |
| **Commercial & Mixed Use** |
| **Industrial** |
| **TOTALS** |

**ERU Structure**

| Tiers | # of SF Properties |
|---|---|
| 1 ERU | 4000 |
| 2 ERUs | 2000 |
| 3 ERUs | 1000 |
| Totals | 7000 |
| Number of ERUs | 11000 |
| % of ERUs | 65% |

**) PROGRAM REVENUE REQUIREMENT**

| Year | 1 |
|---|---|
| STORMWATER PROGRAM REVENUE | $ 500,000 |
| *Subtotal: Revenues from SF Properties* | $ 325,790.78 |
| *Subtotal: Revenues from MF Properties* | $ 94,775.50 |
| *Subtotal: Revenues from Comm-MU Properties* | $ 77,005.09 |
| *Subtotal: Revenues from Industrial Properties* | $ 2,428.62 |
| Stormwater Tarriff (1 ERU) | $ 2.47 |
| Estimated Current Charges (based on 55 gpd indoor, sewer) | $ 54.82 |
| Total Monthly Bill | $ 57.29 |
| Total Monthly Bill | $ 687.50 |

**; ERU CATEGORIES**

| Year | 1 |
|---|---|
| Subtotal: ERU Tier 1 | $ 118,469.38 |
| Subtotal: ERU Tier 2 | $ 118,469.38 |
| Subtotal: ERU Tier 3 | $ 88,852.03 |
| Subtotal: ERU Tier 1 | $ 20,732.14 |
| Subtotal: ERU Tier 2 | $ 47,387.75 |
| Subtotal: ERU Tier 3 | $ 26,655.61 |
| Subtotal: ERU Tier 1 | $ 20,732.14 |
| Subtotal: ERU Tier 2 | $ 11,846.94 |
| Subtotal: ERU Tier 3 | $ 44,426.02 |
| Subtotal: ERU Tier 1 | $ 148.09 |
| Subtotal: ERU Tier 2 | $ 59.23 |
| Subtotal: ERU Tier 3 | $ 2,221.30 |
| Total revenue (should match above) | $ 500,000 |

| # of MF Properties | Commercial | Industrial | Total |
|---|---|---|---|
| 700 | 700 | 5 | 5405 |
| 800 | 200 | 1 | 3001 |
| 300 | 500 | 25 | 1825 |
| 1800 | 1400 | 31 | 10231 |
| 3200 | 2600 | 82 | 16882 |
| 19% | 15% | 0% | 100% |

| 2 | 3 | 4 | 5 | |
|---|---|---|---|---|
| $ 505,000 | $ 510,050 | $ 515,151 | $ 520,302 | << Input Decision Variable |
| $ 329,048.69 | $ 332,339.18 | $ 335,662.57 | $ 339,019.20 | |
| $ 95,723.26 | $ 96,680.49 | $ 97,647.29 | $ 98,623.77 | |
| $ 77,775.15 | $ 78,552.90 | $ 79,338.43 | $ 80,131.81 | |
| $ 2,452.91 | $ 2,477.44 | $ 2,502.21 | $ 2,527.23 | |
| $ 2.49 | $ 2.52 | $ 2.54 | $ 2.57 | |
| $ 57.88 | $ 60.93 | $ 64.14 | $ 66.74 | |
| $ 60.37 | $ 63.45 | $ 66.68 | $ 69.31 | |
| $ 724.45 | $ 761.40 | $ 800.16 | $ 831.71 | |

| 2 | 3 | 4 | 5 |
|---|---|---|---|
| $ 119,654.07 | $ 120,850.61 | $ 122,059.12 | $ 123,279.71 |
| $ 119,654.07 | $ 120,850.61 | $ 122,059.12 | $ 123,279.71 |
| $ 89,740.55 | $ 90,637.96 | $ 91,544.34 | $ 92,459.78 |
| $ 20,939.46 | $ 21,148.86 | $ 21,360.35 | $ 21,573.95 |
| $ 47,861.63 | $ 48,340.24 | $ 48,823.65 | $ 49,311.88 |
| $ 26,922.17 | $ 27,191.39 | $ 27,463.30 | $ 27,737.93 |
| $ 20,939.46 | $ 21,148.86 | $ 21,360.35 | $ 21,573.95 |
| $ 11,965.41 | $ 12,085.06 | $ 12,205.91 | $ 12,327.97 |
| $ 44,870.28 | $ 45,318.98 | $ 45,772.17 | $ 46,229.89 |
| $ 149.57 | $ 151.06 | $ 152.57 | $ 154.10 |
| $ 59.83 | $ 60.43 | $ 61.03 | $ 61.64 |
| $ 2,243.51 | $ 2,265.95 | $ 2,288.61 | $ 2,311.49 |
| $ 505,000 | $ 510,050 | $ 515,151 | $ 520,302 |

**HOUSEHOLD AFI**

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| **Blockgroup with Lowest MHI (Most Vulnerable)** |

* Based on nomina
** Based on nomin

**FORDABILITY****

| **Analysis of Household Affordability** | |
|---|---|
| *Associated MHI Threshold for Total Monthly Bill* | |
| 1% | $ 68,749.97 |
| 2% | $ 34,374.98 |
| *Annual Expense of 2018-Adjusted MHI Threshold ($35,432)* | |
| 1% | $ 346.03 |
| 2% | $ 692.06 |
| *Disparity* | |
| 1% | $ 341.47 |
| 2% | n/a |

al costs (in that year) of rates using published rate increases and no additional inflati
al values of Median Household Income values in each year using 3% inflation rate

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| $ 72,444.88 | $ 76,140.09 | $ 80,015.60 | $ 83,171.40 |
| $ 36,222.44 | $ 38,070.04 | $ 40,007.80 | $ 41,585.70 |
| | | | |
| $ 356.11 | $ 366.19 | $ 376.26 | $ 386.34 |
| $ 712.21 | $ 732.37 | $ 752.53 | $ 772.69 |
| | | | |
| $ 368.34 | $ 395.21 | $ 423.89 | $ 445.37 |
| $ 12.23 | $ 29.03 | $ 47.63 | $ 59.03 |

on considerations

## Survey of Existing Stormwater Assessments and Fees in Cali

To learn more about municipal stormwater permits throughout the U.S

**Campbell, C. Warren, et al. "Western Kentucky university stormwater utility sur**
**https://www.wku.edu/seas/documents/swusurvey-2016.pdf**

| Municipality | Assessment Method for Residential Units |
|---|---|
| CITY OF PALO ALTO | Base Rate |
| CITY OF SANTA CLARITA | Base Rate |
| CITY OF HUNTINGTON PARK | Base Rate + Per Amt of Impervious Area |
| CITY OF MONROVIA | Base Rate + Per Dwelling Unit |
| CITY OF BEVERLY HILLS | Flat Rate |
| CITY OF CLAYTON | Flat Rate |
| CITY OF ALHAMBRA | None |
| CITY OF LOS ANGELES | Per Dwelling Unit |

## fornia

5., please see the following reference:

**vey." (2016): 1-50.**

| Rate (Residential) | Assessment Method for Non-Residential Units |
|---|---|
| $7.48 / ERU / mo | Base Rate |
| $24.04 / ERU / mo | Base Rate |
| $7.15 for first 3000 sq ft., addl $1.05 for 1000 sq ft | Base Rate + Per Amt of Impervious Area |
| Residential: $1.68 / mo + $1.25 / add'l unit / mo<br>Trailer: $2.55 / mo + $1.92 / add'l space | Base Rate + Per Dwelling Unit |
| Residential R-1 (bimonthly): $17.56<br>Residential R-4 (per unit bimonthly): $7.26 | Flat Rate |
| $3.75 / mo | Per Amt of Impervious Area |
| | None |
| $1.92 / EDU /mo | |

| Rate (Non-Residential) |
| --- |
| $6.17 / ERU / mo |
| $24.04 / ERU / mo |
| $7.15 for first 3000 sq ft., addl $1.05 for 1000 sq ft |
| Commercial: $2.70 / mo + $2.02 / add'l comm / mo<br>Industrial: $3.13 / mo<br>Public Facilities: $10.70<br>Cemetery: $2.70 |
| Commercial, Industrial, Municipal (bimonthly for each water customer within city limits): $143.26 |
| |
| |
| |

| Notes |
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| |
| Actual impervious surface is determined by using aerial photography that is digitized and matched to the County's tax records.<br>One Stormwater Unit equals 2,950 square feet which is the typical amount of impervious surfaces on a property with a single family residence. This unit was developed by a process that included analyzing aerial photography of nearly 10% of all single family residences across Clayton County to determine the amount of impervious surface each had. The average was 2,950 square feet. |
| Improvement (Construction) Plan Check Fee (for all improvements to water, sewer or storm drain facilities) fee is based on valuation of improvement costs. The City currently has no Storm Water Inspection fee. This inspection is required form compliance with the<br>NPDES. This fee will cover the costs incurred by the City for a 5 year term with 2 inspections by City staff. Cost does not include a City business license (Fee collected with Bus. Lic.) |
| The unit of measure for the City of Los Angeles is based on the Basic Assessment Unit (BAU), which is the “the proportionate run-off from the average single-family residential parcel. The average single family residential parcel has an area of 0.1526 acres (6,650 square feet) and a run-off factor of 0.4176.The product these (0.0637) is defined as the Basic Assessment Unit.” The number of BAUs a particular parcel represents, the “Equivalent Dwelling Unit” (EDU), is determined using the following formula: EDU = [(parcel area in acres) x (parcel runoff factor)]/BAU |

| | |
|---|---|
| CITY OF SACRAMENTO (Drainage Charge) | Per Dwelling Unit |
| CITY OF CULVER CITY | Flat fee per property |

| | |
|---|---|
| 1-3 Rooms: $7.53 / mo<br>4-5 Rooms: $9.58 / mo<br>6-7 Rooms: $11.31 / mo<br>8-9 Rooms: $13.38 / mo<br>10-15 Rooms: $15.25 / mo<br>Each addl room after 15: +$1.19 | Per Gross Surface Area |
| $99/year for SF residential dwellings<br>$69/year for MF residential dwellings<br>$1,096/year/acre of land for non-residential | Flat fee per property |

| |
|---|
| $0.001928 / per sq ft |
| $1,096/year/acre of land for non-residential |

| |
|---|
| Cemeteries, City Parks, and Airports are charged per sq ft of impervious surface area |
| |