Basin Credits: Tumblin Creek Regional Stormwater Treatment Facility
Alternative #4

Stormwater Pollutant Loads for SW 5th Avenue Stormwater Facility

1	2	3	4	5	6	7	8	9	10
Constituent	Mean Runoff Concentration (mg/l)	Annual Runoff (liters/year)	Pollutant Load (kg/year)	Removal by BMP (%)	% Treated (%)	Lbs Removed lbs./yr.	Banked Credits lbs./yr.	Utilized Credits lbs/yr.	Remaining Credits lbs/yr.
Nitrogen	1.643036952	2,586,670,823	4,250.00	9.4	86	757.44	757.44	0.00	757.44
Phosphorus	0.232345217	2,586,670,823	601.00	7.7	86	87.74	87.74	0.00	87.74
SS	42.80023176	2,586,670,823	110,710.11	46.7	86	98,025.00	98,025.00	0.00	98,025.00
Zn		2,586,670,823							
Lead		2,586,670,823							

Column Notes:

1. Selection of constituents based on representative pollutants typical monitored in Stormwater.
2. Loading Rates from Jones Edmunds Tumblin Creek Watershed Management Plan EMCs
3. Annual runoff is calculated for the Drainage area using 622 acres, Runoff coefficient of .8 and annual rainfall of 50.5 inches.
4. Pollutant load is calculated for the entire DA in kg/year.
5. Removal rates taken from JEA WMP.
6. Represents the percentage of the actual watershed that can be treated effectively during annual average conditions.
7. Represents actual ponds of pollutants removed by the Wet Detention System.
8. Represents the banked pollutant credits.
9. Represents Utilized Credits- See list of City approved projects below.
10. Represents the remaining credits with the Utilized Credits accounted.

General Notes:

1. Refer to a separate matrix of Runoff Concentrations for use when calculating other land uses.
2. For development within or outside the watershed, the engineer must provide pollutant calculations based on the attached matrix.
   The increased pollutants shall then be multiplied by 80% and deducted from the available "Banked Credits" and be accompanied by a
   Letter from the City authorizing use of "Banked Credits".
3. The City shall be responsible for tracking the "Banked Credits" in a running format and providing that information to each engineer
   in a letter format with each modification to the permit.

City Approved Projects   **Status**