San Antonio Water System
Infrastructure Planning Equivalent Dwelling Unit (EDU) Calculation Sheet

Subdivision Name: _____ Plat I.D.# _____

The estimated Average Sewer Flows or Equivalent Dwelling Units that are shown on the SAWS Infrastructure Planning Application for Subdivision Plat Review has been calculated by one of the following methods:

____ Equivalent Dwelling Units (EDU) calculation sheet.
____ Engineering Study using actual consumption data from similar facilities based on twelve month data also submitted for review.
____ Calculate estimated sewer discharge utilizing accepted SAWS referenced material.
____ Unknown land use will be calculated at four (4) EDU's per acre.

SAWS has established recommended guidelines to be employed for future discharge calculations which are shown next to the referenced facility. The numbers shown, for each type of development, are based on flow rate table measurements from TNRCC regulations, ASCE Manuals on Engineering Practice, EPA Technology Transfer Manuals, Uniform Plumbing Code fixture unit count and other Wastewater Engineering texts. All applicants will use these guidelines to calculate average daily flows or EDU's.

SAWS will accept sewage flow calculations for any proposed development which is derived through an engineering study of actual measured sewer flows for similar facilities in lieu of the above criteria to determine the total estimated average daily flow or EDU's for the proposed development. If this data is not provided or new calculations are not submitted with initial plat package, the undersigned will allow SAWS to calculate the estimated average daily flows or EDU's at four EDU's per acre. The undersigned will then also accept SAWS these EDU calculations as final.

Types of Development: Identify all types of development that will be part of the proposed project and complete the related information listed for each to calculate as Estimated Average Daily Flow (EADF) or Equivalent Dwelling Units (EDU's). Note: One (1) EDU equals 240 gallons per day as average sewage flow and 313 gallons per day for average water flow. (Circle type of units used - EADF or EDU's)

Single Family Homes (I EDU/Lot) [ ] **Manufactured Homes** (1 EDU/Pad) [ ] Number Lots _____ Number Pads _____ **EADF or EDU's**_____

Apartments [ ] **Duplexes** [ ] **Town Homes** [ ] **Condominiums** [ ] (0.5 EDU/Unit) Total Number of Units _____ **EADF or EDU's**_____

Schools: Elementary [ ] (5 g/student**)** [ ] Middle (8 g/student) [ ] High School (10 g/student**)** [ ] University/College/Other (10g/student)

Number of Students _____ Number of Faculty & Staff _____ **EADF or EDU's**_____

Hotel [ ] (100 g/room**) Motel** [ ] (50 g/room) Number of Rooms _____ Number of Staff ____ Swimming Pool_____ **EADF or EDU's**_____

Hospital (250 g/bed) [ ] **Nursing Home** (100 g/bed) [ ] other _____ Number of Beds _____ Number of Staff _____ **EADF or EDU's**_____

Commercial [ ] **Industrial** [ ] **TBDBE** Type of Product _____ Water Consumption _____ Effluent Discharged _____

Number of Employees _____ Number of Fixtures _____ **EADF or EDU's** _____

(Contact SAWS Wastewater Compliance Division if a portion of the flow is industrial wastewater. Phone 233-3557)

Office Building [ ] (.035 g/sf) Building Square Footage _____ Number of employees _____ **EADF or EDU's** _____

Medical Building [ ] (.15 g/sf) Building Square Footage _____ Number of employees _____ **EADF or EDU's** _____

Restaurant [ ] **Cafeteria** [ ] (20 g/seat) Number of Seats _____ Business Hours _____ **EADF or EDU's** _____

Fast Food [ ] (4.4 edus per facility) Type of Food Served _____ **EADF or EDU's**_____

Cocktail Lounge [ ] **Night Club** [ ] **TBDBE** Number of Seats and at Bar _____ Number of Employees _____ **EADF or EDU's** _____

Health Club [ ] **Recreational Facility** [ ] **TBDBE** Building Square Footage _____ Customers per day _____ Swimming Pool Size _____

Seats in Snack Bar _____ Number of Restrooms _____ Number of Showers _____ **EADF or EDU's** _____

Department Store [ ] **Retail Store** [ ] (.07 g/sf) Type of Store _____ Building Sq. Ft._____ Number of Customers _____

Number of Employees _____ Snack Bar _____ **EADF or EDU's**_____

Grocery Store [ ] **Food Store** [ ] **Convenience Stores** [ ] **TBDBE** Building Square Footage_____ Number of Employees _____

Business Hours _____ Number of Customer _____ Fuel Service _____ **EADF or EDU's** _____

Laundries [ ] (200 g/machine) Number of Machines _____ Business Hours _____ **EADF or EDU's** _____

Churches [ ] **Auditoriums** [ ] (5 Gal/Seat) Seating Capacity _____ Number Rest Rooms _____ Number of Fixtures _____ **EADF or EDU's** _____

Car Wash [ ] **TBDBE** (1.5 edu per Bay) Number of Bays _____ Number Cars per Day _____ **EADF or EDU's** _____

Automated Car Wash [ ] **TBDBE** Gallons for Premium Wash_____ Effluent Discharged per Wash _____ Number Cars per Day _____

EADF or EDU's _____ (Specifications Required)

Service stations [ ] 1 edu Gas Station _____ add 2 edu Grocery/Takeout Food_____ add 15 edu Car Wash_____ **EADF or EDU's** _____

Theatre [ ] (1.5 g/seat) Number of seats_____ Number of Employees _____ **EADF or EDU's** _____

Other Type of Development Proposed Land Use _____ Building Square Footage _____ Number of Employees _____

Number of Customers _____ Number of seats _____ Number of Fixtures _____ Business Hours _____ **EADF or EDU's** _____

Calculation work space for land use not shown: (Please type or print in ink)

Additional Information: _____

_____

_____

If additional space is needed add a separate sheet, on letterhead, and attach it to this sheet at time of submittal.

This form must be completely filled out and submitted with an original signature. No other form will be accepted.

_____ _____
Applicant or Applicant's Agent Signature Date