



## Landscape Documentation Package Water Efficient Landscape Worksheet

CITY OF ENCINITAS  
PLANNING AND BUILDING DEPARTMENT  
505 South Vulcan Avenue  
Encinitas, California 92024  
(760) 633-2710

PROJECT ADDRESS: \_\_\_\_\_ APN: \_\_\_\_\_

PLANNING CASE NO.: \_\_\_\_\_

BUILDING PLANCHECK NO.: \_\_\_\_\_ GRADING PLANCHECK NO.: \_\_\_\_\_

APPLICANT NAME: \_\_\_\_\_ TELE. NO.: \_\_\_\_\_

TITLE: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

COMPANY: \_\_\_\_\_ EMAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

Complete all portions of this worksheet and submit with the Landscape Documentation Package for the project. The Water Efficient Landscape Worksheet must be prepared, signed, and stamped by a California-licensed civil engineer, architect, or landscape architect. A landscape contractor may prepare the Water Efficient Landscape Worksheet if the landscaping is for the homeowner of a single-family residential project.

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(City Use)

Date Received (stamp)

By: \_\_\_\_\_

## I. Hydrozone Information Table

Complete a hydrozone information table for each irrigation point of connection. Use as many tables as necessary to provide information on the total landscaped area. All references in this worksheet must correspond to equivalent references in the irrigation plan (controller number, hydrozone number, valve circuit number, etc.).

Irrigation Point of Connection (POC) No. _____									
A	B	C	D	E	F	G	H	I	J
Controller No.	Hydrozone No.	Valve Circuit No.	Irrigation Method (Code)	Plant Factor (average) (PF)	Hydrozone Area (HA) (sq. ft.)	% of Total Landscaped Area	PF x HA	IE	(PF x HA) / IE
<b>TOTAL</b>						<b>100%</b>			

Hydrozone Category	PF – Plant Factor (average)
High Water Use	0.8
Moderate Water Use	0.5
Low Water Use	0.3
Very Low Water Use	0.1
Special Landscaped Area	1.0

Irrigation Method Code	IE – Irrigation Efficiency*
S = Spray	0.55
R = Rotor	0.70
D = Drip	0.80

- Hydrozone Category is based on the feature or plant within the hydrozone with the highest plant factor.
- Artificial turf is considered a low water use.
- \**Turf and Landscape Irrigation Best Management Practices*, April 2005, Water Management Committee of the Irrigation Association.

## II. Maximum Applied Water Allowance (MAWA) Calculations

The project's Maximum Applied Water Allowance shall be calculated using this equation:

$$\text{MAWA} = (\text{ETo})(0.62)[0.55 \times \text{LA} + 0.45 \times \text{SLA}]$$

Where:

MAWA = Maximum Applied Water Allowance in gallons per year.

ETo = Evapotranspiration in inches per year; for Encinitas ETo = 42.9 inches.

0.62 = Conversion factor to gallons per square foot.

0.55 = ET adjustment factor for plant factors and irrigation efficiency.

LA = Landscaped area includes special landscaped area in square feet.

0.45 = the additional ET adjustment factor for a special landscaped area (1.0 - 0.55 = 0.45)

SLA = Portion of the landscaped area identified as a special landscaped area in square feet.

Show values:

LA = \_\_\_\_\_ square feet (Total from Column F of project Hydrozone Table)

SLA = \_\_\_\_\_ square feet

Show calculation:

**Maximum Applied Water Allowance = \_\_\_\_\_ gallons per year**

### III. Estimated Total Water Use (ETWU) Calculations

The project's Estimated Total Water Use for each landscaped area and the entire project using the following equation:

$$ETWU = (ETo)(0.62)(PF \times HA / IE + SLA)$$

Where:

ETWU = Estimated total water use in gallons per year.

ETo = Evapotranspiration in inches per year, for Encinitas ETo = 42.9 inches.

0.62 = Conversion factor to gallons per square foot.

PF = Plant factor from WUCOLS

HA = Hydrozone Area in square feet. Each HA shall be classified based upon the data included in the landscape and irrigation plan as high, medium or low water use.

IE = Irrigation Efficiency of the irrigation method used in the hydrozone.

SLA = Special landscaped area in square feet.

Show calculation:

**Estimated Total Water Use = \_\_\_\_\_ gallons per year**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
License No.

\_\_\_\_\_  
Renewal Date

Stamp