



TOWN OF MORAGA

PLANNING DEPARTMENT MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) APPLICATION

Model Water Efficient Landscape Ordinance (MWELO) Guidelines

The model water efficient landscape ordinance of the State of California, as contained in the California Code of Regulations Title 23, Waters, Division 2, Department of Water Resources, Chapter 2.7, Model Water Efficient Landscape Ordinance, and as amended from time to time by the State of California, is hereby adopted by reference as the [Water Efficient Landscape Ordinance](#) of the Town of Moraga.

The purpose of water efficient landscape ordinances is to not only increase water efficiency but to improve environmental conditions in the built environment. Landscaping should be valued beyond the esthetic because landscapes replace habitat lost to development and provide many other related benefits such as improvements to public health and quality of life, climate change mitigation, energy and materials conservation and increased property values.

MWELO – Application Fee – Please Select the Following

Model Water Efficient Landscape Ordinance (MWELO) Fee

\$1,500 Deposit – Cost of Service

Please see the Town of Moraga [Master Fee Schedule](#) for appropriate fee/deposit and note the following:

- All credit card transactions will incur a 4% processing fee.
- No application will be deemed to be submitted, nor shall the application be reviewed or acted on by the Town, until such fee is received.
- Deposit based projects: The Advanced Planning Surcharge is collected from the deposit.
- Projects within the Moraga Center and Rheem Park Specific Plan Areas may be subject to review under the Objective Design Standards adopted for those areas, check with Planning staff to determine the appropriate review level.

**COMPLETE THE STANDARD PLANNING APPLICATION, AND PROVIDE
PROFESSIONAL CONTACT INFORMATION HERE**

PROJECT GEOTECHNICAL ENGINEER	PROJECT CIVIL ENGINEER
NAME: _____	NAME_____
ADDRESS: _____	ADDRESS: _____
CITY/STATE/ZIP: _____	CITY/STATE/ZIP: _____
PHONE: _____	PHONE: _____
EMAIL: _____	EMAIL: _____

PROJECT ARCHITECT	LANDSCAPE ARCHITECT
NAME: _____	NAME: _____
ADDRESS: _____	ADDRESS: _____
CITY/STATE/ZIP: _____	CITY/STATE/ZIP: _____
PHONE: _____	PHONE: _____
EMAIL: _____	EMAIL: _____

Project Information

A. Project Location

Project Street Address: _____

Project City, State, Zip: _____

Parcel or Lot Number(s) if Available: _____

B. Site Plan.

Submittal Date: _____

Application Number: _____

C. Applicant Information

Applicant Name: _____

Title: _____

Company Name: _____

Phone Number: _____

Email Address: _____

Street Address: _____

City, State, Zip: _____

D. Property Owner (or Designee) Information

Applicant Name: _____

Title: _____

Company Name: _____

Phone Number: _____

Email Address: _____

Street Address: _____

City, State, Zip: _____

E. Project Type & Size

This information in this section must be provided in an annual report from the permitting agency to the State Department of Water Resources

Total Landscape Area (in sq. ft.): _____

Total landscape area equals all the irrigated planting areas, turf, and water features and does not include the building footprint or hardscapes such as sidewalks, patios, parking lots or driveways.

- New Construction or
- Renovation / Rehabilitation

- Public or
- Private

- Single-Family Residential
- Stand-Alone Dwelling
- Landscape Architect / Designer / Contractor
- Homeowner Designed / Installed
- Production Homes, Number of Units: _____
- Commercial / Institutional
- Cemetery
- Multifamily Residential, Number of Units: _____

F. Water Supply Type

Types of Water Used for Irrigation (Check all that apply)

- Potable
- Recycled Water from a Municipal Source
- Recycled Water from On-Site
- Well Water
- On-Site Graywater
- On-Site Rainwater

Name of Water Purveyor (unless private well):

G. Landscape Documentation Package Submittals

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer:	Reviewer:
		Pass	Fail/NA
	1. Project Information	<input type="checkbox"/>	<input type="checkbox"/>
	2. Water Efficient Landscape Worksheet	<input type="checkbox"/>	<input type="checkbox"/>
	3. Soil Management Report (if significant mass grading is planned, submit after construction)	<input type="checkbox"/>	<input type="checkbox"/>
	4. Landscape Design Plan, plant legend and specifications, details, notes	<input type="checkbox"/>	<input type="checkbox"/>
	a. Statement and signature by approved party: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the Landscape Design Plan."	<input type="checkbox"/>	<input type="checkbox"/>
	5. Irrigation Design Plan and specifications, details, notes	<input type="checkbox"/>	<input type="checkbox"/>
	a. Statement and signature by approved party: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the Irrigation Design Plan."	<input type="checkbox"/>	<input type="checkbox"/>
	6. Hydrozone Plan (see Irrigation Design Plan or Landscape Design Plan)	<input type="checkbox"/>	<input type="checkbox"/>

Applicant:	Item: Description of Document	Reviewer:	Reviewer:
Write the Plan Sheet Number		Pass	Fail/NA
	7. Grading Design Plan and specifications, details, notes	<input type="checkbox"/>	<input type="checkbox"/>
	a. The following statement is on the plan and signed by the appropriate party: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the grading design plan."	<input type="checkbox"/>	<input type="checkbox"/>

Additional Required Documents

	1. Cover Sheet		<input type="checkbox"/>	<input type="checkbox"/>
	2. Site Plan/Layout		<input type="checkbox"/>	<input type="checkbox"/>

"I agree to comply with the requirements of the Water Efficient Landscape Ordinance and submit a complete Landscape Documentation Package"

Signature:

Signed by licensed landscape architect, licensed landscape contractor, landscape designer or other person authorized by the Permitted Practice in California, dependent on landscape occupancy type.

H. Water Budget / Water Use Calculator

Table 2 H. Water Budget/Water Use Calculator

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. The Estimated Total Water Use (ETWU) does not exceed the Maximum Applied Water Allowance (MAWA) § 492.6 (a)(1)(A)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. ET adjustment factor (ETAF) is 0.55 for residential projects or 0.45 for non-residential projects	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Reference Evapotranspiration (ETo) is correct for geographic area (Appendix A - Reference Evapotranspiration (ETo) Table § 492.4 (a)(1))	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4. Majority of landscape area should have plant factors of low to moderate (0.1 - 0.6)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5. Verify that Special Landscape Areas (SLA's) have an ETAF of 1.0	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6. Cross check that SLA's are identified on the landscape plans as areas dedicated solely to edible plants, recreational areas, or areas/water features irrigated with recycled water.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	7. If swimming pools are in landscape plans, verify the following in the water budget/water use calculator for:	<input type="checkbox"/>	<input type="checkbox"/>

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	a. Residential single-family homes: Check that plant factor used = 1.0 and irrigation efficiency = 1.0	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Non-residential projects and recreational areas of common interest residential developments: Pools may be included as an SLA	<input type="checkbox"/>	<input type="checkbox"/>

I. Soil Management Report

Table 3 I. Soil Management Report

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Attach soil analysis report of the soil in planting areas from a soil lab if there is no mass grading during construction (otherwise submit report after construction with Certificate of Completion)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. The soil sample follows laboratory protocol and includes:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Soil texture	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Infiltration rate	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. pH	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. Total soluble salts	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	e. Sodium	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	f. Percent soil organic matter	<input type="checkbox"/>	<input type="checkbox"/>

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	g. Amendment recommendations	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	I. Including use of compost at a minimum of 4 cubic yards per 1,000 sf, OR at a rate sufficient to bring soil organic matter up to 6% by dry weight	<input type="checkbox"/>	<input type="checkbox"/>

J. Hydrozones (See Landscape Design Plan or Irrigation Design Plan)

Table 4 J. Hydrozones (see Landscape Design Plan or Irrigation Design Plan)

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Hydrozone information on the water budget matches landscape plans	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Hydrozones are delineated and marked by number, letter or other designation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Hydrozones are identified as low moderate, high water or mixed water use	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. No hydrozone has a mix of high (PF = 0.7 – 1.0) and low (PF= 0.1 – 0.3) water use plants.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. No plant with a plant factor 0.7 or greater is located in street medians	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	2. Water features shown on landscape plans are included as high water use hydrozones in the plans and in the water budget	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Temporarily irrigated areas are included in the low water use hydrozones on the plans and on the water budget	<input type="checkbox"/>	<input type="checkbox"/>

K. Landscape Design Plan

Table 5 K. Landscape Design Plan

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Plant legend lists common name, botanical name, quantities, mature plant size, water use or plant factor of each plant, and source of information for plant water use	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Hardscapes are labeled as pervious or non-pervious	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Stormwater treatment areas, including type, size and installation details, are labeled as applicable	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4. Rain harvesting or catchment technologies are labeled	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5. Graywater discharge piping, system components and area(s) of distribution are labeled as applicable	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6. If SLA's are on the water budget, verify that the plans note the following:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Recreational areas	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	b. Areas dedicated solely to edible plants	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Areas irrigated with recycled water	<input type="checkbox"/>	<input type="checkbox"/>

L. Water Features (Skip if not included)

Table 6 L. Water Features (skip if not included)

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Water features are shown, including type and surface area	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Notes state “recirculating water systems shall be used for water features”	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Use of recycled water is noted where used	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4. Single-family residential projects only: new swimming pools are shown as water features and included in water use calculations as a high water use hydrozone	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5. All other projects: new swimming pools are shown as water features and identified as an SLA	<input type="checkbox"/>	<input type="checkbox"/>

M. Soil, Compost, and Mulch

Table 7 M. Soil, Compost and Mulch

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Mulch: Check that 3 inches of recycled content mulch is specified on planting soil in plans or notes. Exceptions:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Up to 5% of the landscape area may be left bare to provide habitat for ground dwelling pollinators	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. No mulch is required in turf areas or direct seeding applications	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. If hydroseeding, the mulching portion of the slurry meets the mulch requirement	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. If wood mulches are prohibited by local fire regulations, gravel or stone mulch may be used	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Recycled content mulch is aged tree trimmings, arbor mulch, pallet mulch or composted mulch.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Compost: Check notes or specifications to verify compost is applied at a minimum rate of 4 CY/1,000 sf or at a rate to bring soil organic matter up to 6% by dry weight as indicated in Soil Report	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Construction documents specify that compost is incorporated at least 6 inches deep	<input type="checkbox"/>	<input type="checkbox"/>

N. Invasive Plants

Table 8 N. Invasive Plants

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Invasive Plants: Plant legend shows plant species listed by the California Invasive Plant Council https://www.cal-ipc.org/plants/horticulture-plants/		

O. Planting

Table 9 O. Planting

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Plant factors used on the plant legend are noted from WUCOLS IV or approved horticultural researchers	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Mature plant spread is noted for each species as well as the published third-party reference	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Plants located adjacent to buildings, sidewalks, roads or obstructions are installed to accommodate their minimum spread according to the plant legend	<input type="checkbox"/>	<input type="checkbox"/>

P. Irrigation Design Plan

Table 10 P. Irrigation Design Plan

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Check for the following notes on the irrigation plans:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. "Pressure regulating devices are required if water pressure is below or exceeds the recommended pressure of the specified irrigation devices."	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. "Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur."	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. "Irrigation system is designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas."	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Automatic irrigation controllers that are ET-based or soil moisture-based	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Sensors that shut off the irrigation controller during unfavorable weather conditions - sensors for rain, freezing temperatures (if necessary), and wind (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4. Location, type and size of the following:		
<input type="checkbox"/>	a. Water meters	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Main lines	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Lateral lines	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. Quick couplers	<input type="checkbox"/>	<input type="checkbox"/>

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer:	Reviewer:
		Pass	Fail/NA
<input type="checkbox"/>	e. Valves (stations), including:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	I. Flow rate (gpm)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	II. Application rates (in/hr)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	III. Design operating pressure (pounds per square inch) for each station	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	f. Sprinkler heads	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	g. Backflow prevention devices	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5. Manual shut-off valve (gate, ball, butterfly valve) located as close as possible to the point of connection	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6. Master shut-off valve. Exception:	<input type="checkbox"/>	<input type="checkbox"/>
	Individual control of individually pressurized sprinklers in a system with low pressure shut down features	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	7. Projects with 5,000 sf or greater total landscape area have flow sensors	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	8. Check that a dedicated water meter or submeter for the landscape is installed as applicable.	<input type="checkbox"/>	<input type="checkbox"/>
	Applicability:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Non-residential projects: Greater than 1,000 sf landscape area. At 5000 sq.ft. dedicated service	<input type="checkbox"/>	<input type="checkbox"/>
	meters are installed by supplier on new landscapes (see Water Code	<input type="checkbox"/>	<input type="checkbox"/>
	535	<input type="checkbox"/>	<input type="checkbox"/>
	http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=WAT&sectionNum=535	<input type="checkbox"/>	<input type="checkbox"/>

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	b. Residential projects: Greater than 5,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	9. Cross-check landscape plan and irrigation plan to verify that low volume irrigation (drip) are used in mulched planting areas (no spray irrigation)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	10. Check that planting areas less than 10 feet in width are irrigated with subsurface irrigation or other means that produce no runoff or overspray	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	11. Check irrigation plans to verify that no sprinklers (spray or rotors) are located within 24 inches of non-permeable surface	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	12. Irrigation plans show trees are on separate valves (separate tree valve is optional, but recommended)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	13. Irrigation plans show biotreatment areas are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	14. Irrigation design matches hydrozones shown on Hydrozone and/or Landscape Design Plan	<input type="checkbox"/>	<input type="checkbox"/>

"I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the Irrigation Design Plan."

Signature: _____
Signed by licensed landscape architect, certified irrigation designer or licensed landscape contractor, irrigation consultant or any other person authorized by the Permitted Practice in California

Q. Grading Design Plan

Table 11 Q. Grading Design Plan

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Check the grading plan for the finished configurations and elevations of the landscape area including:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Height of graded slopes	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Drainage patterns	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Pad elevations	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. Finish grade	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	e. Stormwater retention improvements (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. On slopes greater than 25%, cross-check the Grading Design Plan and Irrigation Design Plan to verify:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Slopes are not irrigated with an application rate exceeding 0.75 inches per hour	<input type="checkbox"/>	<input type="checkbox"/>

R. Required Statements and Certification

Table 12 R. Required Statements and Certification

Applicant: Write the Plan Sheet Number	Item: Description of Document	Reviewer: Pass	Reviewer: Fail/NA
<input type="checkbox"/>	1. Check for the following notes on plans:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. "A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes."	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. "A Certificate of Completion shall be filled out and certified by either the designer of the landscape plans, the designer of the irrigation plans, or the licensed landscape contractor for the project."	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. "An irrigation audit report shall be completed at the time of final inspection."	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. "A landscape waste diversion plan shall be completed and submitted with the Certificate of Completion."	<input type="checkbox"/>	<input type="checkbox"/>

Additional Submittals

Applicant: Be prepared to provide these additional submittals at completion of landscape construction:

1. Certificate of Completion
2. As-builts or record drawings, if significant changes were made to approved landscape documents.
3. Irrigation schedule, landscape maintenance schedule, landscape irrigation audit report
4. Soil Management Report, if not submitted previously

Water Efficient Landscape Worksheet

Water Efficient Landscape Worksheet

This worksheet is filled out by the project applicant and it is a required element of the Landscape Document Package

Reference Evapotranspiration (ETo) _____

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sqft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^e
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Regular Landscape Areas

Totals				(A)	(B)	

Special Landscape Areas

			1		
			1		
			1		
			Totals	(C)	(D)
			ETWU Total		
			Maximum Allowed Water Allowance (MAWA) ^e		

^aHydrozone #/Planting Description E.g 1) Front Lawn 2) Low water use plantings 3) Medium water use planting	^bIrrigation Method overhead spray or drip	^cIrrigation Efficiency 0.75 for spray head 0.81 for drip	^dETWU (Annual Gallons Required)= $Eto \times 0.62 \times ETAF \times Area$ where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.
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^eMAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA)((1-ETAF) x SLA)]

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year. LA is the total landscape area in square feet, SLA is the total special landscape area in square feet and ETAF is .55 for residential areas and 0.45 for non-residential areas

ETAF Calculations		 ETAF = $\frac{\text{Total EFTA} \times \text{Area}}{\text{Total Area}}$	Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas		
Regular Landscape Area					
Total EFTA x Area	(B)				
Total Area	(A)				
Average ETAF	(B/A)				

All landscape Areas		
Total EFTA x Area	(B + D)	
Total Area	(A + C)	
Sitewide ETAF	(B + D) / (A + C)	