



# CITY OF PALMDALE

## Landscape Documentation Package for all Submittals

- (1) The Landscape Documentation Package shall include all of the following elements. Each element is described in detail in Section B.3.
  - (A) Water Efficient Landscape Worksheet
  - (B) Project Information and Checklist
  - (C) Water Use Efficiency Statement
  - (D) Water Budget Calculation
  - (E) Maximum Applied Water Allowance (MAWA)
  - (F) Estimated Water Use (EWU) for Hydrozones and Estimated Total Water Use (ETWU)
  - (G) Hydrozone Information
    - Hydrozone Map
    - Hydrozone Table
    - Hydrozone Calculation Summary
  - (H) Soil Management Plan
  - (I) Soil Analysis Report
  - (J) On-Site Soil Assessment with Recommendations
  - (K) Landscape Design Plan
  - (L) Irrigation Design Plan
  - (M) Grading Design Plan
  - (N) Final Conditions of Approval
  - (O) Approved Tentative Tract Map or Approved Site Plan
  - (P) Plan check fees with print out of Landscape Excel Sheet

## Appendix B – Landscape Documentation Package

### Water Efficient Landscape Worksheet – Page 1 of 11

Please complete the entire worksheet, as it is part of the Landscape Documentation Package that is required to be submitted with the plans per Ordinance # 1362.

#### **SECTION A. PROJECT INFORMATION**

Date: \_\_\_\_\_

Project Name \_\_\_\_\_

Project Applicant \_\_\_\_\_

Project Address and Location:

Street Address		Parcel Number	
City		Tract or Lot Number (s)	
State	Zip Code	Latitude/Longitude (optional)	Coordinates

Please use the checklist below to indicate completion of the Landscape Documentation Package.

#### **Landscape Documentation Package**

- Water Efficient Landscape Worksheet
- Soil Management Plan (Soil Analysis Report and On-site soil Assessment with Recommendations)
- Landscape Design Plan
- Irrigation Design Plan
- Grading Design Plan

Please fill in the information below to describe the landscape project, where applicable:

Total Project area \_\_\_\_\_ (sq. feet)

Total irrigated landscape area \_\_\_\_\_ (sq. feet)

Turf area \_\_\_\_\_ (sq. feet)

Non-turf area \_\_\_\_\_ (sq. feet)

Recreational areas \_\_\_\_\_ (sq. feet)

Areas permanently and solely dedicated to edible plants \_\_\_\_\_ (sq. feet)

\*Additional information is also required in Part # 3 of the worksheet

Total non-irrigated landscape area \_\_\_\_\_ (sq. feet)

**Water supply type:** - Please check all that apply.

- Potable water
- Recycled Water
- Graywater
- Groundwater or Well Water
- Mixed Use
- Other\_\_\_\_\_

**Project Type:** Please check only one

- Public or community facility (i.e., park, playground, etc.)
- Commercial
- Industrial
- Institutional (i.e., school, etc.)
- Other\_\_\_\_\_
- Single Family Residence
- Multi-Family Residential
- Model Home
- Mixed Use

**Project Contacts** -The project applicant and other individuals may receive inquiries or notifications of all proceedings regarding the Water Efficient Landscape Worksheet from the City. Please provide the name, address, email address, and telephone, etc. of each person to receive such inquiries and notifications.

**1. Project Applicant**

Name	Telephone and Fax Number	
Title	Email address	
Company	Street Address	
City	State	Zip Code

**2. Property Owner**

Name	Telephone #	
	Fax #	
Title	Email address	
Company	Street Address	
City	State	Zip Code

**3. Licensed Landscape Architect**

Name	Telephone #	
	Fax #	
Title	Email address	
License #		
Company	Street Address	
City	State	Zip

**4. Certified Irrigation Designer**

Name	Telephone #	
	Fax #	
Title	Email address	
License #		
Company	Street Address	
City	State	Zip

**5. Landscape Installation Contractor**

Name	Telephone #	
	Fax #	
Title	Email address	
State License #	City of Palmdale License #	
Company	Street Address	
City	State	Zip

**6. Landscape Maintenance Contractor (if known)**

Name	Telephone #	
	Fax #	
Title	Email address	
State License #	City of Palmdale License #	
Company	Street Address	
City	State	Zip

**7. Local retail water purveyor**

Name of contact at water purveyor	Telephone No.	
	Fax No.	
Title	Email address	
Name of Company or Water Purveyor	Street Address	
	State	Zip Code

**SECTION B. WATER USE EFFICIENCY STATEMENT**

Provide a narrative summary of the water use efficiency practices applied to the landscape project and answer all of the following questions (attach additional sheets if necessary):

Narrative Statement: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Questions:**

(1) Did you review the ordinance to learn about the criteria and specifications for landscape design plans? Yes \_\_\_\_\_ No \_\_\_\_\_

(2) Did you coordinate with the City or local retail water purveyor on the landscape plan?  
\_\_\_\_\_

(3). Which criteria and specifications did you apply to the landscape design plan?  
\_\_\_\_\_  
\_\_\_\_\_

(4) Did you review the ordinance to learn about the criteria and specifications for the irrigation design plan? \_\_\_\_\_

(5) Did you coordinate with the City or local retail water purveyor on the irrigation design plan? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(6). Which criteria and specifications plan did you apply to your irrigation design plan?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Page 5 of 11 of the Water Efficient Work Sheet

(7) Did you ask for assistance from the City/local retail water purveyor to calculate a project water budget? \_\_\_\_\_

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(8) Did you receive any water efficient landscape publications from the City or local retail water purveyor?

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(9) How would you assure the overall quality of the irrigation system?

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(10) How will you manage the irrigation system for optimum operation and performance?

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(11) How will you manage the irrigation system to respond to the changing requirement for water in the landscape?

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(12) Did you apply any stormwater best management practices to the design? \_\_\_\_\_

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13) If recycled water was available, did you design and install a dual distribution system?

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(14) Did you select plants from plant lists provided by the City of Palmdale?

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**SECTION C. Water Budget Calculation**

**Section C1. Maximum Applied Water Allowance**

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

$$MAWA = (ET_o) (0.8) (LA) (0.62)$$

- MAWA = Maximum Applied Water Allowance (gallons per year)
- ET<sub>o</sub> = Reference Evapotranspiration (inches per year)
- 0.8 = ET Adjustment Factor
- LA = Landscaped Area (square feet)
- 0.062 = Conversion factor (to gallons)

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

Show calculations:

**Recycled or Blended Water information**

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If the irrigation water (recycled water or blended water) has electrical conductivity equal to, or greater than, 3 deci Siemens per meter (dS/m) or 3 millimhos per centimeter (mmh/cm) or 2000 mg per liter total dissolved solids (TDS), a leaching factor of up to 10% may be included in the MAWA calculation. The leaching factor shall not exceed 10% of MAWA.

**Section C2.** Estimated amount of water expected from effective precipitation has been eliminated because the City of Palmdale does not receive enough reliable rainfall in any given year to utilize this information.

**Section C3. Estimated Water Use for hydrozones and Estimated Total Water Use**

The project's Estimated Total Water Use is calculated using the following formula:

$$EWU = \frac{(ET_o) (PF) (HA) (0.62)}{(IE)}$$

- EWU = Estimated total water use for a hydrozone (gallons)
- ET<sub>o</sub> = Reference evapotranspiration (inches per month)
- PF = Plant Factor
- HA = Hydrozone area (square feet)
- 0.62 = Conversion factor
- IE = Irrigation efficiency

Show calculations for each hydrozone (attach additional sheets if necessary).

$$ETWU = \sum_{i=1 \text{ to } n} (EWU_i)$$

- i = hydrozone number
- n = total number of hydrozones

Estimated Total Water Use=\_\_\_\_\_gallons

Show calculations:

**Section C4. Estimated Applied Water Use** - This section has been eliminated because the City of Palmdale does not utilize effective rainfall in these calculations

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**Section C5: Additional Water Requirements**

Recreational areas and areas permanently and solely dedicated to edible plants may require water in addition to the Maximum Applied Water Allowance. Please be sure to provide a statement in the landscape design plan and in the irrigation schedule, designating those portions of the landscape to be used for such purposes, and specifying any additional water needed above the Maximum Applied Water Allowance. The total amount of irrigation water allowed for these areas shall not exceed 1.0 of ETo.

Show calculations:

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**SECTION D. HYDROZONE INFORMATION**

**Section D1. Hydrozone Map**

Attach a hydrozone map to the Water Efficient Landscape Worksheet. Hydrozones shall be designated by number, letter, or other designation. Designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in Section D2 – Hydrozone Table. This map can also assist with pre and final inspections of the irrigation system, and programming the controller.



**Section D3. Hydrozone Calculations Summary (Blank Form)**

Please complete a hydrozone calculation summary for each irrigation point of connection.

<b>Irrigation Point of Connection # _____</b>		
Hydrozone	Total Square Feet	% of Total Landscape Area
Cool Season Turf		
Warm Season Turf		
High Water Use Plants		
Moderate Water Use Plants		
Low Water Use Plants		
High and Medium Water Mix		
Medium and Low Water Mix		
<b>Total</b>		

**Comments**

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**SIGNATURES:**

I further acknowledge and agree under penalty of perjury under the laws of the State of California that the information contained in the Water Efficient Landscape Worksheet is true and correct.

\_\_\_\_\_  
Signature of Project Applicant

\_\_\_\_\_  
Date

**Example Page only for Water Efficient Worksheet –  
Do not include in final submittal to City or Water Purveyor**

The hydrozone table and hydrozone calculation summary are provided below as examples only.

Irrigation Point of Connection (P.O.C.) #1 Main Street					
Controller #	Valve Circuit #	Plant Type	Irrigation Method	Area (sq.ft.)	% of Landscape area
1	1	HW/MW	Bubbler	275	2.8%
1	2	HW	Bubbler	275	2.8%
1	3	LW	Drip	1040	10.5%
1	4	CST	Spray	496	5.0%
1	5	LW	Drip	600	6.1%
1	6	CST	Spray	1600	16.2%
1	7	LW	Drip	724	7.3%
1	8	MW/LW	Drip	1852	18.8%
2	1	CST	Spray	1600	16.2%
2	2	HW	Bubbler	80	0.8%
2	3	LW	Drip	780	7.9%
2	4	LW	Drip	548	5.6%

Irrigation Point of Connection # (P.O.C.)		#1 (Main Street)
Hydrozone	Total Square Feet	% of Total Landscape Area
Cool Season Turf	3696	37.0
Warm Season Turf	0	0
High Water Use Plants	355	3.6
Moderate Water Use Plants	0	0
Low Water Use Plants	3692	37.6
High and Medium Water Mix	275	2.3
Medium and Low Water Mix	1852	18.7
Total	9870	100%

**THIS SECTION BELOW IS FOR LOCAL AGENCY USE ONLY.**

Signature of the Local Agency Representative	
Name of the Local Agency Representative	
Title	
Telephone Number	
Email Address	
Name of Local Agency	
Name of Department/Division/Unit	
Street Address	
City	
State and Zip Code	

For this project the Permit, Plan Check, or Design Review has been:

**Issued on Date:** \_\_\_\_\_

Notes: \_\_\_\_\_

**Denied on Date:** \_\_\_\_\_

Notes: \_\_\_\_\_

Comments \_\_\_\_\_

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