City of Daly City Landscape Project Application

On March 22, 2010, the City of Daly City adopted a Water Conservation in Landscaping Ordinance. The provisions of this Ordinance apply to all of the following landscape projects:

- **Tier 1 Landscapes**: All new construction and rehabilitated landscapes with irrigated landscape areas between 1,000 square feet and 2,500 square feet requiring a building or landscape permit, plan check or design review, or requiring new or expanded water service.
- **Tier 2 Landscapes**: All new construction and rehabilitated landscapes with irrigated landscape areas equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check or design review or requiring new or expanded water service.
- Existing landscapes, including existing cemeteries, installed before April 21, 2010 and over one acre in size.
- New and rehabilitated cemeteries.

The provisions of this Ordinance do not apply to:

- New construction and rehabilitated landscapes with irrigated landscape areas less than 1,000 square feet or that do not require a building or landscape permit, plan check or design review, or new or expanded water service;
- Landscapes, or portions of landscapes, that are only irrigated for an establishment period;
- Registered local, state or federal historical sites where landscaping establishes a historical landscape style, as determined by a public board or commission responsible for architectural review or historic preservation;
- Ecological restoration or mined-land reclamation projects that do not require a permanent irrigation system; or
- Community gardens or plant collections, as part of botanical gardens and arboretums open to the public, agricultural uses, commercial nurseries and sod farms.

A complete Landscape Project Application includes the following elements:

- Project Information;
- Outdoor Water Use Efficiency Checklist;
- Water Budget Calculations, if applicant selects to use a water budget approach rather than comply with the turf area limitations or specified plant type restrictions;
- Landscape and Irrigation System Design Plans; and
- Landscape Audit Report.

Please contact the Daly City Planning Division for any questions related to this application at 650.991.8033
### OUTDOOR WATER USE EFFICIENCY CHECKLIST

#### To Be Completed by Applicant

I certify that the subject project meets the specified requirements of the Water Conservation in Landscaping Ordinance.

Signature ___________________________ Date _____________

#### Project Information

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Single Family</th>
<th>Multi-Family</th>
<th>Commercial</th>
<th>Institutional</th>
<th>Irrigation only</th>
<th>Industrial</th>
<th>Other</th>
</tr>
</thead>
</table>

Applicant Name (print): ___________________________ Contact Phone #: ___________________________

#### Project Area

<table>
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<tr>
<th>Project Area (sq.ft. or acre):</th>
<th># of Units:</th>
<th># of Meters:</th>
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</thead>
</table>

For a single-family project, or a single-family development project, enter this information on an average, per unit basis. For all other projects, input an aggregate value for the entire project.

#### Landscape Parameter

<table>
<thead>
<tr>
<th>Landscape Parameter</th>
<th>Requirements</th>
<th>Project Compliance</th>
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</table>

**Turf**

- Less than 25% of the landscape area is turf
  - Yes
  - No, See Water Budget

- All turf is planted on slopes < 25%
  - Yes

**Non-Turf**

- At least 80% of non-turf area is native or low water use plants
  - Yes
  - No, See Water Budget

**Hydrozones**

- Plants are grouped by Hydrozones
  - Yes

**Mulch**

- At least 2-inches of mulch on exposed soil surfaces
  - Yes

**Irrigation System Efficiency**

- 70% ETo (100% ETo for SLAs)
  - Yes

- No overspray or runoff
  - Yes

**Irrigation System Design**

- System efficiency > 70%
  - Yes

- Automatic, self-adjusting irrigation controllers
  - No, not required for Tier 1
  - Yes

- Moisture sensor/rain sensor shutoffs
  - Yes

- No sprayheads in < 8-ft wide area
  - Yes

**Irrigation Time**

- System only operates between 8 PM and 10 AM
  - Yes

**Metering**

- Separate irrigation meter
  - No, not required because < 5,000 sq.ft.
  - Yes

**Swimming Pools / Spas**

- Cover highly recommended
  - Yes
  - No, not required

**Water Features**

- Recirculating
  - Yes

- Less than 10% of landscape area
  - Yes

**Documentation**

- Checklist
  - Yes

- Landscape and Irrigation Design Plan
  - Prepared by applicant
  - Prepared by professional

- Water Budget (optional)
  - Prepared by applicant
  - Prepared by professional

**Audit**

- Post-installation audit completed
  - Completed by applicant
  - Completed by professional
<table>
<thead>
<tr>
<th>Material Distributed to Applicant</th>
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</thead>
<tbody>
<tr>
<td>❑ Water Conservation in Landscaping Ordinance</td>
</tr>
<tr>
<td>❑ Outdoor Water Use Efficiency Checklist</td>
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<tr>
<td>❑ Outdoor Water Use Efficiency Checklist</td>
</tr>
<tr>
<td>❑ Water Budget Calculation Worksheets</td>
</tr>
<tr>
<td>❑ Plant List</td>
</tr>
<tr>
<td>❑ Other:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measures Recommended to Applicant</th>
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</thead>
<tbody>
<tr>
<td>❑ Drip irrigation</td>
</tr>
<tr>
<td>❑ Self-adjusting Irrigation Controller</td>
</tr>
<tr>
<td>❑ Plant palate</td>
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<tr>
<td>❑ Three (3) inches of mulch</td>
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<tr>
<td>❑ Soil amendment (e.g., compost)</td>
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<tr>
<td>❑ Grading</td>
</tr>
<tr>
<td>❑ Pool and/or spa cover</td>
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<tr>
<td>❑ Dedicated irrigation meter</td>
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<tr>
<td>❑ Other:</td>
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</tbody>
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<tr>
<th>Comments:</th>
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<tr>
<th>Selected Definitions:</th>
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<tbody>
<tr>
<td><strong>Tier 1</strong></td>
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<td><strong>Tier 2</strong></td>
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<tr>
<td><strong>ETo</strong></td>
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<tr>
<td><strong>SLA</strong></td>
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<tr>
<td><strong>Professional</strong></td>
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<tr>
<td><strong>Water Feature</strong></td>
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</table>
**WATER BUDGET CALCULATION WORKSHEETS**

**SECTION A. HYDROZONE INFORMATION TABLE**

Please complete the hydrozone table(s) for each hydrozone. Use as many tables as necessary to provide the square footage of landscape area per hydrozone.

<table>
<thead>
<tr>
<th>Hydrozone (a)</th>
<th>Zone or Valve Number</th>
<th>Irrigation Method (b)</th>
<th>Area (Sq. Ft.)</th>
<th>Percent (%) of Landscape Area</th>
</tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100%</td>
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</table>

(a) **Hydrozone:**

- **HW** = High Water Use Plants
- **MW** = Moderate Water Use Plants
- **LW** = Low Water Use Plants

(b) **Irrigation Method:**

- **MS** = Micro-spray
- **S** = Spray
- **R** = Rotor
- **B** = Bubbler
- **D** = Drip
- **O** = Other
Section B1. Maximum Applied Water Allowance (MAWA)

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

\[ MAWA = (ETo) (0.62) [(0.7 \times LA) + (0.3 \times SLA)] \]

where:

- MAWA = Maximum Applied Water Allowance (gallons per year)
- ETo = Reference Evapotranspiration (inches per year)
- 0.62 = Conversion factor (to gallons per square foot)
- 0.7 = ET Adjustment Factor (ETAF)
- LA = Landscaped Area includes Special Landscape Area (square feet)
- 0.3 = the additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)
- SLA = Portion of the landscape area identified as Special Landscape Area (square feet)

Maximum Applied Water Allowance = ________________________ gallons per year

Show calculations.

Effective Precipitation (Eppt)

If considering Effective Precipitation, use 25% of annual precipitation. Use the following equation to calculate Maximum Applied Water Allowance:

\[ MAWA= (ETo – Eppt) (0.62) [(0.7 \times LA) + (0.3 \times SLA)] \]

Maximum Applied Water Allowance = ________________________ gallons per year

Show calculations.
Section B2. Estimated Total Water Use (ETWU)

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

\[
ETWU = (ETo)(0.62)\left(\frac{PF \times HA}{IE} + SLA\right)
\]

where:

- ETWU = Estimated total water use per year (gallons per year)
- ETo = Reference Evapotranspiration (inches per year)
- PF = Plant Factor from WUCOLS
- HA = Hydrozone Area [high, medium, and low water use areas] (square feet)
- SLA = Special Landscape Area (square feet)
- 0.62 = Conversion Factor (to gallons per square foot)
- IE = Irrigation Efficiency (minimum 0.70)

Hydrozone Table for Calculating ETWU

Please complete the hydrozone table(s). Use as many tables as necessary.

<table>
<thead>
<tr>
<th>Hydrozone</th>
<th>Plant Water Use Type(s)</th>
<th>Plant Factor (PF)</th>
<th>Area (HA) (square feet)</th>
<th>PF x HA (square feet)</th>
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</table>

Estimated Total Water Use = ___________________________ gallons

Show calculations.
Reference Websites

- General information on water-efficient landscapes:
  [www.water.ca.gov/wateruseefficiency/docs/water_efficient_landscapes.pdf](http://www.water.ca.gov/wateruseefficiency/docs/water_efficient_landscapes.pdf)
- Guide for estimating the water needs of plants:
  [www.water.ca.gov/wateruseefficiency/docs/wucols00.pdf](http://www.water.ca.gov/wateruseefficiency/docs/wucols00.pdf)
- Residential landscapes:
  - [www.water.ca.gov/wateruseefficiency/docs/toolkit.pdf](http://www.water.ca.gov/wateruseefficiency/docs/toolkit.pdf)
- Parks and Commercial landscapes:
  [www.water.ca.gov/wateruseefficiency/docs/parkscomm.pdf](http://www.water.ca.gov/wateruseefficiency/docs/parkscomm.pdf)
- Plant recommendations:
- California invasive plant material list and recommendations [www.cal-ipc.org](http://www.cal-ipc.org)
- Reference evapotranspiration information:
  [www.cimis.water.ca.gov/cimis/welcome.jsp](http://www.cimis.water.ca.gov/cimis/welcome.jsp)
- Irrigation controller information:
  [www.water.ca.gov/wateruseefficiency/docs/irrigation_controllers_0903.pdf](http://www.water.ca.gov/wateruseefficiency/docs/irrigation_controllers_0903.pdf)
- BAWSCA’s Water Wise Gardening information: [www.bawsca.org](http://www.bawsca.org)
- Guides to pest control and more: [www.ourwaterourworld.org](http://www.ourwaterourworld.org)