(Insert City/County Logo) APPLICATION FOR GRAYWATER IRRIGATION SYSTEM PERMIT

1. Project Information

<table>
<thead>
<tr>
<th>Application Date:</th>
<th>Assessor’s Parcel Number (APN):</th>
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<tbody>
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Project Address:

<table>
<thead>
<tr>
<th>Applicant/Property Owner Name:</th>
<th>Designer/Contractor Contact Name:</th>
</tr>
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<tbody>
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<tr>
<th>Phone Number:</th>
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<tr>
<th>Email:</th>
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Occupancy Type: (choose one)

- Single Family Residential (one-two dwellings)  
  # of current occupants: ____
- Multi Family Residential (more than two dwellings)  
  # of current occupants: ____
- Commercial  
  # of daily occupants: ____

Description of Project:

Graywater Source: (indicate the type and number of fixture(s) to be diverted to graywater irrigation)

- Shower(s) #________  
  Clothes Washer(s) #________  
  Lavatory (bathroom sink) #________
- Other: #________

Check All That Apply:

- Yes ☐ No ☐ This property is served by municipal water/sewer
  If Yes, name of Water Provider: ____________________________
- Yes ☐ No ☐ This property contains a well
- Yes ☐ No ☐ This property contains an onsite wastewater treatment system
- Yes ☐ No ☐ This property has high groundwater within 3’ of the soil surface.
- Yes ☐ No ☐ Does the system design include a surge tank or storage of graywater?* If Yes,
  - Attach specifications that describe how the storage tank will automatically empty every 24 hours.
  - Attach specifications showing how graywater overflow will be piped to sewer/septic by gravity.

*Note: Storage tanks are not recommended. Best management practice is to direct graywater immediately to irrigation field.

Topography of Area to be Irrigated with Graywater:

- Flat
- Slightly sloped
- More than 30% slope

I certify that I have read and understand the California Plumbing Code requirements for graywater irrigation systems. I understand that if there is a complaint investigation that verifies a violation of the applicable standards, then the property owner will be subject to cost recovery and any fines resulting from the investigation (Calif. Health & Safety Code Section 510).

Applicant Signature: ____________________________ Date: ____________________________

Printed Name: ____________________________________________
2. Estimated Daily Graywater Production – Residential Only  (Attach Calculations for Commercial Projects)

**Calculation Method (choose one)**

- **□ CPC estimate** *(Assign 2 occupants to master bedroom and 1 occupant to each additional bedroom)*
  
  Laundry: \[ \text{_______ occupants x 15 gallons/day} \] \[ \text{_______ gal/day} \]
  
  Shower/sink: \[ \text{_______ occupants x 25 gallons/day} \] \[ \text{_______ gal/day} \]
  
  **TOTAL** \[ \text{_______ gal/day} \]

- **□ Estimate of graywater produced from winter (Dec-Feb) water use records** *(attach utility bill)*
  
  Laundry: \[ \text{Avg. water use ÷ 30 days_____ (gallons/day)} \] \[ \times 0.22 \] \[ \text{_______ gal/day} \]
  
  Shower: \[ \text{Avg. water use ÷ 30 days_____ (gallons/day)} \] \[ \times 0.17 \] \[ \text{_______ gal/day} \]
  
  Sink: \[ \text{Avg. water use ÷ 30 days_____ (gallons/day)} \] \[ \times 0.03 \] \[ \text{_______ gal/day} \]
  
  **TOTAL** \[ \text{_______ gal/day} \]

3. Irrigation System Capacity

**Actual Irrigation Field Area:** \[ \text{__________ ft}^2 \]

**Minimum Required Irrigation Field Area:**

\[ \text{_______ (gal/day)} \div \text{_______ gal/ft}^2/\text{day} = \text{__________ ft}^2 \]

*From Section 2 Maximum Absorption Capacity* **Minimum Required Irrigation Field Area**

*Use the table below to find the maximum absorption capacity of your soil*

<table>
<thead>
<tr>
<th>DESIGN OF SIX TYPICAL SOILS TYPE OF SOIL</th>
<th>MINIMUM SQUARE FEET OF IRRIGATION/LEACHING AREA PER 100 GALLONS OF ESTIMATED GRAY WATER DISCHARGE PER DAY</th>
<th>MAXIMUM ABSORPTION CAPACITY IN GALLONS PER SQUARE FOOT OF IRRIGATION/LEACHING AREA FOR A 24-HOUR PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse sand or gravel</td>
<td>20</td>
<td>5.0</td>
</tr>
<tr>
<td>Fine sand</td>
<td>25</td>
<td>4.0</td>
</tr>
<tr>
<td>Sandy loam</td>
<td>40</td>
<td>2.5</td>
</tr>
<tr>
<td>Sandy clay</td>
<td>60</td>
<td>1.7</td>
</tr>
<tr>
<td>Clay with considerable sand or gravel</td>
<td>90</td>
<td>1.1</td>
</tr>
<tr>
<td>Clay with small amounts of sand or gravel</td>
<td>120</td>
<td>0.8</td>
</tr>
</tbody>
</table>
4. Irrigation Method  (Select and complete all that apply to the project)

☐ Gravity to Mulch Basins (Branched Drain)
Total mulch basin surge capacity: _______gal/day \( \div 7.48 \text{ gal/ft}^3 \div 0.80 = \) _______\( \text{ft}^3 \)

From Section 2

☐ Effluent Pump to Mulch Basins
Make and model of effluent pump (attach specifications): _______________________
Total mulch basin surge capacity: _______gal/day \( \div 7.48 \text{ gal/ft}^3 \div 0.80 = \) _______\( \text{ft}^3 \)

From Section 2

☐ Drip Irrigation System
Drip emitter flow rate: _______ gal/hour
Total number of drip emitters: _______
Make and model of pump/filtration system (attach specifications): _______________________
Make and model of backflow prevention device (attach specifications): _______________________

☐ Constructed Wetland (1-day retention time)
Total capacity: _______gal/day \( \div 7.48 \text{ gal/ft}^3 \div 0.25 = \) _______\( \text{ft}^3 \)

From Section 2

5. Irrigation Plan
Using the attached graph paper (or your own), draw a map and legend of graywater system components that shows the pathway of piping from the fixture(s) inside the building to the landscape/irrigation field. If graywater is directed to the front yard, show the street frontage and your driveway. In your drawing, include the location of all:

- Graywater valves
- Graywater pipes and fittings
  (indicate material and size)
- Clean-outs
- Pumps and surge tanks (if applicable)
- Graywater outlets and mulch basins
- Backflow prevention (drip only)
- Setback of graywater outlets to property lines and buildings*
- Setback of graywater outlets to onsite wastewater treatment system tanks and leachfields* (if applicable).
- Setback of graywater outlets to wells and drainages* (if applicable).

*See table below for required setbacks. See the California Plumbing Code for additional notes about setbacks.

**CPC Table 1602.4 - LOCATION OF GRAY WATER SYSTEM**

<table>
<thead>
<tr>
<th>MINIMUM HORIZONTAL DISTANCE IN CLEAR REQUIRED FROM</th>
<th>SURGE TANK (feet)</th>
<th>SUBSURFACE AND SUBSOIL IRRIGATION FIELD AND MULCH BASIN (feet)</th>
<th>DISPOSAL FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building structures</td>
<td>5</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Property line adjoining private property</td>
<td>5</td>
<td>1.5</td>
<td>5</td>
</tr>
<tr>
<td>Water supply wells</td>
<td>50</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Streams and lakes</td>
<td>50</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Sewage pits or cesspools</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Sewage disposal field</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Septic tank</td>
<td>0</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>On-site domestic water service line</td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Pressurized public water main</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
Example Graywater Irrigation Plan