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

1. Project Information	
Application Date:	Assessor's Parcel Number (APN):
Project Address:	
Applicant/Property Owner Name:	Designer/Contractor Contact Name:
Phone Number:	Phone Number:
Email:	Email:
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 fixt	ture(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	er/sewer
If Yes, name of Water Provider:	
Yes No This property contains a well	
Yes No This property contains an onsite wastewa	eter treatment system
Yes No This property has high groundwater withi	in 3' of the soil surface.
Yes No Does the system design include a surge to	
	e storage tank will automatically empty every 24 hours. ter overflow will be piped to sewer/septic by gravity.
*Note: Storage tanks are not recommended. Best managemen	
Topography of Area to be Irrigated with Graywater:	
Flat	100%
Slightly sloped	50% 40%
	30% 20%
More than 30% slope	10%
	— gade — angle
I certify that I have read and understand the California systems. I understand that if there is a complaint inves standards, then the property owner will be subject to cinvestigation (Calif. Health & Safety Code Section 510).	tigation that verifies a violation of the applicable cost recovery and any fines resulting from the
Applicant Signature:	Date:
Applicant Signature.	Dutc.

2. Estimated Daily Graywater	Production – Residenti	al Only (A	Attach Calculations for Commercial Projec
Calculation Method (choose one)			
CPC estimate (Assign 2 occupants	to master bedroom and 1 occup	pant to each	additional bedroom)
Laundau			
Laundry:o	ccupants x 15 gallons/day		gal/day
Shower/sink: o	noumanta y 25 mallana /day		2 22 17 122
Shower/shik.	ccupants x 25 gallons/day		gal/day
		TOTAL	
		IUIAL	gal/day
Estimate of graywater produced	from winter (Doc-Eoh) wat	OF UCO POCO	ede (attach utility bill)
_ Littliate of graywater produced	mom winter (Dec-reb) wate	er use reco	as (attach utility bill)
Laundry: Avg. water use ÷ 30	days(gallons/day)	x 0.22	gal/day
, and the second	(841101137 4477	X 0.22	gai/uay
Shower: Avg. water use ÷ 30	days(gallons/day)	x 0.17	gal/day
11.8. 11.4.1. 436 1 30	(Sanons) day)	V 0.11	gai/uay
Sink: Avg. water use ÷ 30	days (gallons/day)	x 0.03	gal/day
20 12 12 12 12 12 12 12 12 12 12 12 12 12	(8)	,	gui, au y
		TOTAL	gal/day
		THE LEADER	9-7
actual Irrigation Field Area:	ft²		
linimum Required Irrigation Field A	rea:		
•			
(gal/day) ÷	gal/ft²/day =	w	ft²
From Section 2 Maximum	Absorption Capacity*	Minim	um Required Irrigation Field Area
Use the table below to find the maximum		oil	
DESIGN OF SIX TYPICAL SOILS TYPE OF SOIL	MINIMUM SQUARE FEET OF IRRIGATION/LEACHING AREA PE	EP 100	MAXIMUM ABSORPTION CAPACITY IN
JOIL	GALLONS OF ESTIMATED	EV 100	GALLONS PER SQUARE FOOT OF IRRIGATION/LEACHING AREA FOR A 24-
	GRAY WATER		HOUR PERIOD
	DISCHARGE PER DAY		
Coarse sand or gravel	20		5.0
Fine sand	25		4.0
Sandy loam	40		2.5
Sandy clay	60		1.7
Clay with considerable sand or gravel	90		1.1
Clay with small amounts of sand or	120		0.8
Clay with small amounts of sand or	120		

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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 gal/ft <sup>3</sup> $\div$ 0.80 =ft <sup>3</sup>		
From Section 2		
Effluent Pump to Mulch Basins		
Make and model of effluent pump (attach specifications):		
Make and model of emdent pump (attach specifications).		
Total mulch basin surge capacity:gal/day $\div$ 7.48 gal/ft <sup>3</sup> $\div$ 0.80 =ft <sup>3</sup>		
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 gal/ft <sup>3</sup> $\div$ 0.25 =ft <sup>3</sup>		

### 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)

From Section 2

- 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).

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

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

<sup>\*</sup>See table below for required setbacks. See the California Plumbing Code for additional notes about setbacks.

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GRAYWATER IRRIGATION FIELD PLAN Scale = \_\_\_\_\_" = \_\_\_\_\_'

APN #	Address:

**LEGEND:** 

# **Example Graywater Irrigation Plan**

