

### APPLICATION FOR SIMPLE RESIDENTIAL GRAYWATER IRRIGATION (CLOTHES WASHER AND SIMPLE SYSTEMS) NO STORAGE

Please read the 2019 California Plumbing Code Chapter 15 Alternate Water Sources for Non-potable Applications for design Requirements before completing this form. A complex system will require a separate plumbing permit, engineered plans and plan check review before approval. Upon completion of application, please submit via: Oakland Online Portal (accela.com) by applying for a plumbing permit.

#### 2019 California Plumbing Code (iapmo.org)

Project Address	Parcel Number								
Owner Name		Phone			Email				
Designer		Phone			Email				
Project Description (Inclu			de type and number of fixtures to be diverted):						
Daily Flow Calc	ulation (GDP)								
Lany How Care	anation (GD. )								
Number of Bedro	ooms			Number of	Occupa	ants			
				(First bedro	oom 2, 1	l each p	er bedroom	after)	
Showers, bathtub	os, and lavatories per o	day/occup	pant	25 gallons (	(95 L)				
Laundry				15 gallons (57 L) per day/occupant					
Daily graywater flow gallons per day total									
Soil Type Determination									
Choice A	Use table below for	absorptio	n rates						



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Minimum irrigation field: Divide to		tal GPD by the number i	in the colu	ımn of Table	1502.10 of y	our soil type	2.		
TABLE 1502.10 D	ESIGN OF S	IX TYPICAL	SOILS						
TYPE OF SOIL	MINIMUM SQUARE FEET OF IRRIGATION OR LEACHING AREA PER 100 GALLONS OF ESTIMATED GRAYWATER DISCHARGE PER DAY		MAXIMUM ABSORPTION CAPACITY IN GALLONS PER SQUARE FOOT OF IRRIGATION/LEACHING AREA FOR A 24-HOUR PERIOD						
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 gravel	120		0.8						
			in fine sand soil would n	need 100/4	1.0= 25 squar	e feet of irrig	gation area		
Minimum irrigat	ion field size	e needed k	pased on soil type:						



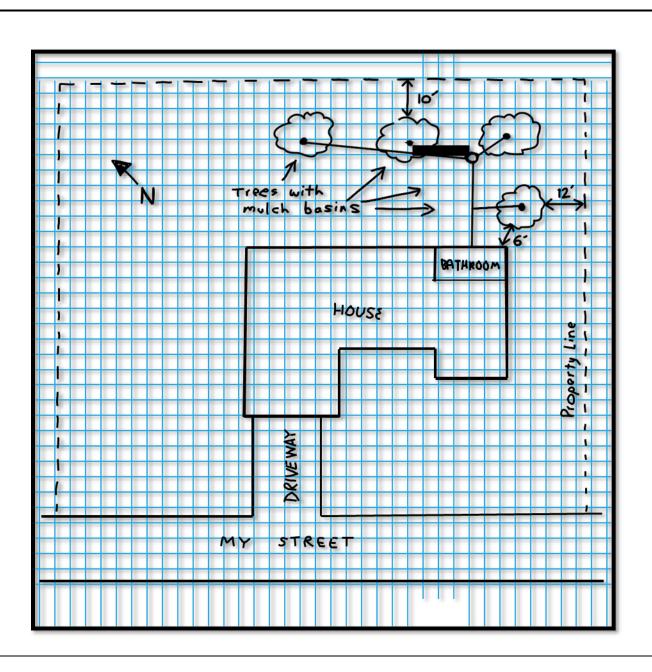
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Choice E	3	Soil Test. Gray wate	Soil Test. Gray water system shall be installed only in the area and depth that was tested.					
Soil type	Soil type: (Per Laboratory Soil Test)							
Minimum irrigation field size needed based on soil type:								
outlined standard	I certify that I have the homeowner's manual for this system, that I have read it, and that I will maintain the system as outlined in the manual. I understand that if there is a complaint investigation that verifies a violation of the applicable standards, improper use of the system, or not performing the necessary maintenance, that I will be held responsible for any fines or costs resulting from the investigation.							
Owner S	Signature							
	_							
Mainter	nance and	d Inspection 1501.5						
•			In accordance with manufacturer's instructions, and/or the Authority Having Jurisdiction, or every 3 months					
			In accordance with manufacturer's instructions, and/or the Authority Having Jurisdiction, or after installation and every 12 months thereafter.					
Inspect and maintain mulch basins for gray water irrigation systems.			As needed to maintain mulch depth and prevent ponding and runoff.					
Owner' Manual Requirements 1501.6								
An operation and maintenance manual for gray water and on-site treated non-potable water systems required to have a permit in accordance with Section 1501.3 and Section 1504.2 shall be supplied to the building owner by the system designer or installer. The operating and maintenance manual shall include the following:								
1	Diagram(s) of the entire system and the location of system components.							
2	Instructions on operating and maintaining the system.							
3	Instructions on maintaining the water quality for on-site treated non-potable water systems.							
4	Details on startup, shutdown, and deactivating the system for maintenance or repair.							

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	5	Applicable testing, inspection, and maintenance frequencies in accordance with Section 1501.5.
	6	A method of contacting the installer and/or manufacturer(s).
Ī	7	Directions to owner/occupant that the manual shall remain on the building during the life of the structure.

#### **Sample Plot Plan of Gray Water System**



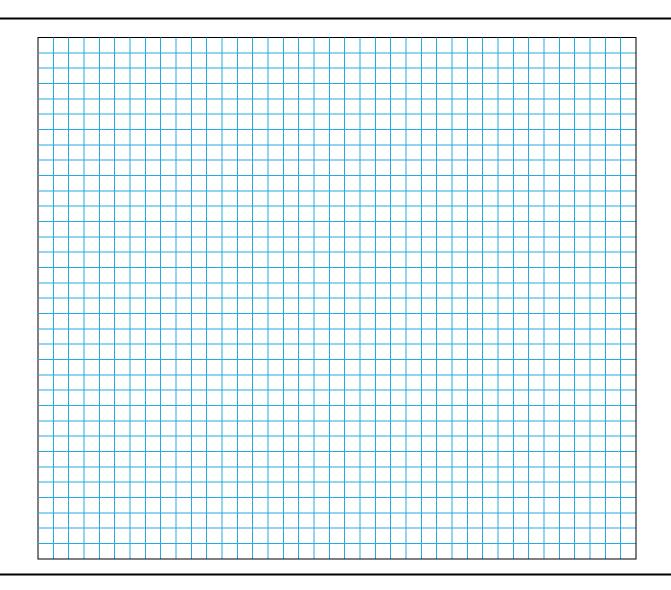


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Setback distance for greywater irrigation systems (Table 1502.4)				
MINIMUM HORIZONTAL DISTANCEIN CLEAR REQUIRED FROM	Disposal Field			
Building structures:	5 ft.			
Property line:	5 ft.			
Streams and lakes:	100 ft.			
Onsite domestic water service line:	0 ft.			
Pressurized public water main:	10 ft			

#### **Sample Plot or Site Plan**

Using the graph below, indicate where on the property the graywater will be used (see sample site plan on the previous page). Indicate setbacks to property lines, house and other structures, drainage ways, 30% slopes, and drinking water lines. Show street frontage and your driveway.





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