

COMMUNITY AND ECONOMIC DEVELOPMENT AGENCY – BUILDING SERVICES DEPARTMENT 250 Frank H. Ogawa Plaza, 2^{nd} Floor, Oakland, CA 94612

Inspection Services: 238-3443 FAX: 238-2263 TDD: 238-3254

APPLICATION FOR GRAYWATER IRRIGATION SYSTEM PERMIT

SIMPLE RESIDENTIAL GRAVITY SYSTEMS, NO STORAGE

Please read the California Plumbing Code Chapter 16A-1 Design Requirements before completing this form.

Assessor's Parcel No		
1. Project address:		
2. Owners name and contact info:		
3. Description of project (include type and number of fixtures to be diverted):		
4. Daily graywater flow calculation		
Number of bedrooms: Number of occupants (1+ # of bedrooms)		
Lavatory/Shower/bath = 25 gallons per day per occupant Laundry = Washing machine = 15 gallons/day per occupant		
Daily graywater flow = gallons per day		
5. Determine soil type		
 Choice A Use 1 square foot per gallon infiltration rate (1 ft²/gal) (assumes you have clay soil) Minimum irrigation field size needed= # of gallons of graywater produced daily 		
Minimum irrigation field size = square feet.		

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	•	Send soil	o laborator	y for testing,	use Table	16A-2
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Soil Type	n the column of Table 16A-2 of your soil type. Maximum absorption capacity in gallons per square
Son Type	foot of irrigation area per day
Coarse sand or gravel	5.0
Fine sand	4.0
Sandy loam	2.5
Sandy clay	1.7
Clay with considerable sand or gravel	1.1
Clay with small amounts of sand or gravel	0.8
Example: 100 gallon/day of grayw feet of irrigation area	vater in fine sand soil would need 100/4.0= 25 square
Minimum irrigation field size ne	eeded based on soil type:
I certify that I have the home over and that I will maintain the system there is a complaint investigation standards, improper use of the	where manual for this system, that I have read it, sem as outlined in the manual. I understand that if on that verifies a violation of the applicable system, or non performing the necessary responsible for any fines or costs resulting from

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Permit Checklist for simple gravity, no storage, graywater system

Check if complete	Item	Changes needed/Comments
Connection	on to plumbing fixture and piping	
	3-way diverter valve installed after trap and vent	
	Valve is clearly labeled	
	Backwater valve is installed on sewer side of 3-way valve in the horizontal position	
	Upgrades are made to plumbing if needed (Exception: When upgrades are too difficult to make ie. If plumbing goes into a foundation)	
	2" pipe (ABS, cast iron, or other suitable rigid pipe) is run to outside of building, following drainage plumbing guidelines for fittings, strapping, clean-outs, etc. Any exposed plastic pipe is painted outside of the building.	
	Pipe is labeled "Non-potable water: do not drink" every 5 feet	
	Installation doesn't violate other codes or damage building. Any perforations in building envelope are properly sealed.	
Landscap	e irrigation	
	Irrigation field size meets minimum requirements	
	Graywater discharged minimum of 2" below surface	
	Graywater is not irrigating edible portion of plants (ie. Root crops)	
	Groundwater depth below 3 ft. (checked with test hole)	
	2" or 1 ½" rigid piping is used in landscape. Note: There is no required burial depth for graywater irrigation pipes or tubing, even if standard plumbing materials are used that typically have a required burial depth, such as ABS pipe.	
Operation	s and Maintenance	
	Owners Manual has been read and is at the site.	

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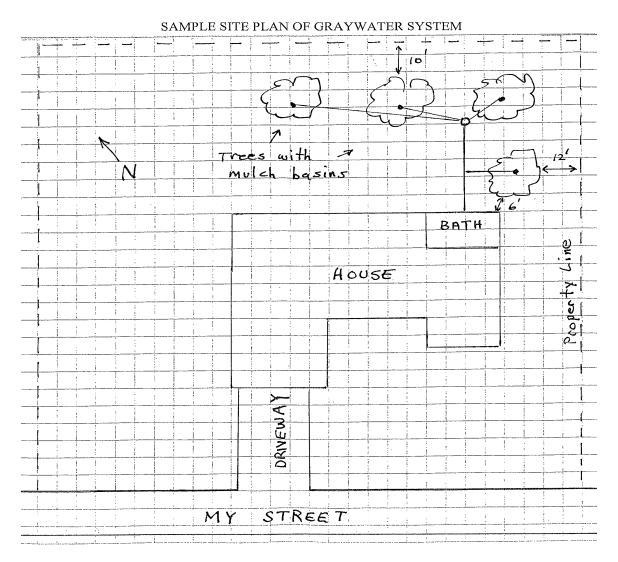


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Sample Plot Plan



Setback distance for greywater irrigation systems (From Table 16A-1 Location of Graywater System)

Minimum horizontal distance for greywater irrigation systems

Building structures: 2 ft Property line: 1.5 ft

Streams and lakes: 100 ft

Onsite domestic water service line: 0 ft Pressurized public water main: 10 ft

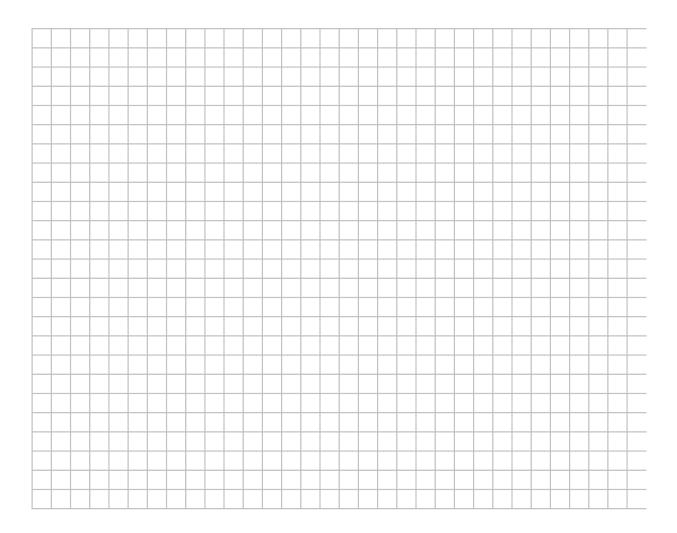
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	Plot or Site Plan
I	Address:
	Using the graph below, indicate where on the property the graywater will be used (see sample site plan on the previous page). Indicate setbacks to property lines, house and other structures, drainage ways, 30% slopes,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



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