

## County of Santa Cruz Environmental Health Services

701 OCEAN STREET, ROOM 312, SANTA CRUZ, CA 95060-4073 Main: (831) 454-2022 Direct: (831) 454-3133 FAX: (831) 454-3128

http://scceh.com/Home/Programs/WaterResources.aspx

## ENVIRONMENTAL HEALTH CLEARANCE TO APPLY FOR BUILDING PERMIT FOR A RESIDENTIAL GREYWATER IRRIGATION SYSTEM \*THIS IS NOT A PERMIT

## TO BE COMPLETED BY APPLICANT:

Date	Assessor's Parcel Number	Construction Site Location		
Owner's Name	Owner's Phone Number			
Owner's Mailing Ac	ldress	Owner's Email Address		
Applicant's Name		Phone Number		
Complex Grey	rater Irrigation System (under water Irrigation System (over	250GPD)Treated Greywater System 250GPD)Laundry Only- System (no permit)		
Cross Check with So  Groundwater Dept  Test hole to check	bil Survey of Santa Cruz County:  h: ck for Groundwater (3.5 ft)? Y or			
	pth Minimum:FT. Date servations regarding seasonal g	Method: roundwater level:		
Verify Setbacks list	ted on Table 1602.4:			
<b>Estimated Greyw</b>	ater Discharge			
# of Bedrooms:	Winter Water Use Recor	rds (optional): Date:		
# of Occupants:	ipants: Laundry on-site: Y or N Estimated Greywater Discharge (gal):			
Note: Showers/tub	s/lavatories = 25GPD/Person;	Laundry = 15GPD/Person		
Total proposed basin	d Irrigation Leaching Area: G	reywater GPD/Soil absorption table 1602.10:ft		

Number of zones	; Total ft² per zone	; Depth (inches)	; Number of outlets;	
Note: Total Mulch b	urge Capacity: pasin surge capacity: (sum quare): Length X Width X	ft³ of all basins)(0.8 ca	pacity with mulch) (7.48gal/ft) V=π r²h (π=3.14)	t³)=gallons
			Date	
•	occupancy including Seption	·	s:	
	ions Suitable for Graywater l tions not Suitable for Graywa			
	tions Marginal, special condi			
High winter groundwater and/or poor soil present: graywater use must not occur during wet season.				
Additional commen	ts or remarks			
	Dal Health Staff	Pate		

Reference Tables from California Plumbing Code Chapter 16:

Table 1602.4 Location of Greywater System			
Minimum Horizontal Distance in clear Required From:	Surge Tank	Subsurface and subsoil Irrigation Field and Mulch <i>Basin</i>	Disposal Field
	Feet	Feet	Feet
Building Structures(1)	5 (*2,3,9)	2 (*3,8)	5
Property Line adjoining private property	5	5 (*8)	5
Water supply wells(4)	50	100	100
Streams and lakes(4)	50	100 (*5,10)	100 (*5)
Sewage pits or cesspools	5	5	5
Sewage disposal field (10)	5	4 (*6)	4(*6)
Septic tank	0	5	5
Onsite domestic water service line	5	0	0
Pressurized public water main (7)	10	10	10(*7)

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- (1) Building structures do not include porches and steps, whether covered or uncovered, breezeways, roofed carports, roofed porte cocheres, roofed patios, carports, covered walks, covered driveways, and similar structures or appurtenances.
- (2) The distance shall be permitted to be reduced to 0 feet for aboveground tanks where first approved by the County
- (3) Underground tanks shall not be located within a 45 degree angle from the bottom of the foundation, or they shall be designed to address the surcharge imposed by the structure. The distance may be reduced to 6 inches for aboveground tanks when first approved by the County.
- (4) Where special hazards are involved, the distance required shall be increased as directed by the County
- (5) These minimum clear horizontal distances shall apply between the irrigation of disposal field and the ocean mean higher high tide line.
- (6) Add 2 feet for each additional foot of depth in excess of 1 foot below the bottom of the drain line.
- (7) For parallel construction or for crossings, approval by the County shall be required
- (8) The distance shall be permitted to be reduced to 1 1/2 feet for drip and mulch basin irrigation systems.
- (9) The distance shall be permitted to be reduced to 0 feet for surge tanks of 75 gallons of less.
- (10) The minimum horizontal distance may be reduced to 50 feet for irrigation or disposal fields utilizing greywater which has been filtered prior to entering the distribution piping.

Table 1602.10 Design of Six Typical Soils				
Type of Soil	Minimum square feet of irrigation/ 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		
Fine sand	25	4		
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		

Table 1602.11 Surface Irrigation Design Criteria for Six Typical Soils				
Type of Soil	Maximum emitter discharge GPD	Minimum number of emitters per GPD of graywater discharge		
Sand	1.8	0.6		
Sandy loam	1.4	0.7		
Loam	1.2	0.9		
Clay loam	0.9	1.1		
Silty clay	0.6	1.6		
Clay	0.5	2		

Completed forms should be sent to Environmental Health Services for review and approval.

Mail forms to: Santa Cruz County Environmental Health

Water Conservation Program

701 Ocean St Rm. 312 Santa Cruz, CA 95060

Or FAX signed forms to: (831) 454-3128

Or e-mail signed forms to Env.Hlth@SantaCruzCounty.us