

**HUMBOLDT COUNTY BUILDING DEPARTMENT
RESIDENTIAL SEPTIC SYSTEM APPLICATION
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GENERAL INSTRUCTIONS: Please fill out the application in full. Do not leave spaces blank or we will assume you have omitted information and your application may be delayed. Two (2) percolation tests are required for each system. The permit cannot be issued without good, sound, complete percolation data. Fees are due when the permit application is submitted and before the issuance of the construction permit. Each system is \$270.00.

GENERAL INFORMATION:

OWNER NAME _____ TELEPHONE _____
MAILING ADDRESS _____ CITY _____
CONSTRUCTION LOCATION _____ ASSESSOR PARCEL NO _____
GROSS ACREAGE OF LOT SYSTEM TO BE LOCATE ON _____
NUMBER OF BEDROOMS _____ NUMBER OF PEOPLE IN RESIDENCE _____

INSTALLER INFORMATION:

INSTALLER NAME _____ TELEPHONE _____
MAILING ADDRESS _____ CITY _____

WATER SOURCE: (CHECK ONE) PRIVATE WELL ___ SHARED WELL ___ PUBLIC WATER SYSTEM ___
WELL DIAMETER: _____ WELL DEPTH _____ CASING DEPTH _____
NAME OF WELL DRILLER _____
NAME OF WATER SYSTEM IF PUBLIC _____

NOTE: YOU MUST SUBMIT YOUR WELL LOG WHEN OBTAINING A SEPTIC PERMIT

SEPTIC TANK: SIZE _____ PURCHASED WHERE? _____ MANUFACTURER _____
CONCRETE OR FIBERGLASS TANK _____
DISTANCE FROM WELL TO TANK _____ DISTANCE TO NEIGHBORING WELLS _____
DISTANCE FROM FOUNDATION OF DWELLING TO TANK _____
PROVIDE MANHOLE ACCESS TO GRADE ON FIRST CHAMBER.

LEACH FIELD:

DISTANCE FROM YOUR WELL TO LEACH FIELD _____
DISTANCE FROM NEIGHBORING WELLS TO YOUR LEACH FIELD _____
NUMBER OF LINES _____ LENGTH OF EACH LINE _____ TRENCH WIDTH _____
AMOUNT OF ROCK INSTALLED UNDER EACH PIPE _____ OVER EACH PIPE _____
COVER MATERIAL: UNTREATED BUILDING PAPER _____ STRAW _____ GEOTEXTILE _____
TAR PAPER IS NOT ALLOWED

CHAMBER SYSTEM:

MANUFACTURER AND MODEL NUMBER OF CHOSEN CHAMBER SYSTEM _____

NUMBER OF LINES _____ NUMBER OF CHAMBERS IN EACH LINE _____

DISTANCE BETWEEN LINES _____ TRENCH WIDTH _____ TRENCH DEPTH _____

COMMENTS OR OTHER PERTINENT INFORMATION:

APPLICANT'S SIGNATURE: _____ **DATE:** _____

PLOT PLAN INFORMATION:**THE FOLLOWING INFORMATION SHALL BE SHOWN ON THE PLOT PLAN (NAC 444.784.3)**

- (a) The title and date of the plan and the signature of the owner or his representative.
- (b) A map of the area in which the individual sewage disposal system will be located that shows the location of the roads and streets.
- (c) The location and distance to well and sewage systems on surrounding lots. If the lots are vacant, the plot plan must so indicate.
- (d) The direction of north clearly indicated.
- (e) The distance within 500 feet to any watercourse indicated, including, without limitation, any pond, lagoon or stream. If there are no watercourses, the plot plan must so indicate.
- (f) The location of each percolation test hole and boring test hole.
- (g) The location and depth of each proposed and/or actual well located within 200' of the proposed individual sewage disposal system. A well log must be included for any well located less than 150' from the absorption field.
- (h) Each component of the individual sewage disposal system, which must be properly marked and located at specified distances.
 - (i) The distance to city sewers. If there are none, the plot plan must so indicate.
 - (j) The distance of each well and soil absorption system to the property line.
 - (k) The scale to which the plan is drawn, such as 1 inch = 30 feet, 40 feet, 50 feet, 60 feet, etc.
 - (l) The number of bedrooms in the single-family dwelling.
 - (m) The capacity of the septic tank.
 - (n) The maximum slope across the absorption system area.
 - (o) The dimensions of the lot.
 - (p) The depth, length, width and spacing of any absorption trenches.
 - (q) The location of the water supply lines, building sewer lines and other underground utilities.
 - (r) The location of the structures, paved areas, driveways, trees and patios.
- (s) The location of the source of water to be used by the individual sewage disposal system, including, without limitation, a well or other source approved by the administrative authority.
- (t) The location of the reserve absorption area, which must be of a size not less than the size of the primary absorption area.

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PLOT PLAN SHOWING ALL ITEMS INCLUDED IN NAC 444.784.3 - SEE PAGE 2 - INDICATE
SCALE IF DRAWN TO SCALE SCALE = _____**

**HUMBOLDT COUNTY BUILDING DEPARTMENT
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Minimum horizontal distance, in clear, required from:	Building sewer drain	Septic tank	Disposal field (shallow)
Building or structure	—	8'	8'
Property lines	10'	10'	10'
Water supply wells (sealed to 50 feet)	50'	100'	100'
Water supply wells (not sealed to 50 feet)	50'	100'	150' *
Public water supply wells	50'	150'	150' *
Streams or watercourses	50'	100'	100'
Drainage channels	25'	25'	25'
Large trees or shrubs	—	10'	10'
Disposal fields	—	5'	—
Community water main line	10'	10'	25'
Individual water service line	10'	10'	25'
Dry wells	—	6'	20'

* The required distance between a well and the components of an individual sewage disposal system may be increased by the administrative authority depending on the depth to the water table, soil profile and site characteristics.

NAC 444.8306 Capacity of septic tank serving single-family dwelling. ([NRS 439.200](#), [444.650](#))

1. The minimum capacity for a septic tank that serves a single-family dwelling is based on the number of bedrooms in the dwelling, and is determined as follows:

Number of Bedrooms	Minimum Liquid Capacity of Tank (in Gallons)
3 or less	1,000
4	1,200
5 or 6	1,500

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PERC RATE (MIN/IN)	FEET OF GRAVEL UNDER LEACH LINE			
	1 FT	2FT	3 FT	4 FT (IF ALLOWED)
10	316'	158'	100'	80'
15	387'	194'	129'	100'
20	447'	224'	149'	-
25	500'	250'	167'	-
30	(547')	273'	182'	-
35	(591')	296'	197'	-
40	(632')	316'	210'	-
45	(670')	335'	224'	-
50	(707')	353'	235'	-
55	(741')	370'	247'	-
60	(775')	387'	258'	-

No one perforated line may exceed 100' in length, lines must be equal and distribution boxes are required when more than 100' of line is needed

