



COUNTY OF NEVADA COMMUNITY DEVELOPMENT AGENCY

Trisha Tillotson, Acting Agency Director

ENVIRONMENTAL HEALTH DEPARTMENT

Amy Irani, REHS, Director

950 MAIDU AVENUE, STE 170
PO Box 599002
NEVADA CITY, CA 95959
PH: (530) 265-1222
FAX: (530) 470-2939

<http://mynevadacounty.com>

REQUIREMENTS FOR NEW PUBLIC WATER WELLS

- A Preliminary Technical Report shall be submitted to Nevada County Environmental Health prior to doing any water related construction to ensure the capability of obtaining a permit for a public water system. You can find guidance on the [Preliminary Technical Report](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/permits/preliminary_water_system_tech_cal_report.pdf) on the State Water Resources Control Board's website using the link below.

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/permits/preliminary_water_system_tech_cal_report.pdf

- Submit to Environmental Health an application to construct a Class II well, applicable fees and the following for review (California Code of Regulations (CCR) Title 22 Section 64560(a)):
 - Documentation demonstrating that a well site control zone with all required set-backs can be established.
 - Design plans and specifications for the well.
 - Documentation required for compliance with the California Environmental Quality Act (CEQA).
- Well Construction Requirements (CCR Title 22 Section 64560(c)):
 - The well must be constructed in accordance with the public water system well requirements in California Department of Water Resources Bulletins 74-81 and 74-90. Construction features must include, but are not limited to the following:
 - Minimum of a 50 ft. annular surface seal extending at least 5 ft. into a consolidated layer. The Annular seal must have a minimum radial thickness of 3 inches.
 - The well head shall terminate a minimum of 18 inches above grade.
 - A casing vent shall be installed a minimum of 36 inches above finished grade, be inverted and screened.
 - Installation of a check valve downstream of the well head sample tap.
 - The pump pedestal shall be a minimum of 2 feet lateral in all directions, a minimum of 4 inches thick and the upper surface of the base shall slope away from the casing.
 - The well house shall be constructed to be secure and limit access to the well.
 - All equipment and materials must be NSF approved (CCR Title 22 Section 64590, 64591).
 - Be constructed in accordance with the American Water Works Association (AWWA) Standard A100-06 (Water Wells).
 - Be installed as per requirements in CCR Title 22 Section # 64560(c) (3) (A-E).
 - The well must have a flow meter installed between the source and the entry point to the distribution system (CCR Title 22 Section 64561).
- Well Capacity Test
 - Bedrock Formation
 - Provide this Department information required for review and approval prior to conducting the well capacity test as per CCR Title 22 Section # 64554(e):
 - Determine well capacity by one of the following methods:
 - Submit a report proposing well capacity based on well tests and the evaluation and management of the aquifer from which the well draws water (CCR Title 22 Section 64554(g)(1)).
 - Conduct a 72-hour well capacity test during the months of August – October as per CCR Title 22 Section #64554(g)(2)(A,C). The well capacity shall be twenty five percent of the pumping rate at the end of the completed test.
 - Conduct a 10 day well capacity test during the months of August – October as per CCR Title 22 Section #64554(g)(2)(B,C). The well capacity shall be fifty percent of the pumping rate at the end of the completed test.

- Each public water system applying for an initial domestic small public water system permit shall submit a major water plan check and applicable fees as per CCR Title 22 Section 64552. The application shall include the following:
 - A detailed project description.
 - [Domestic small Public Water System permit application](#).
 - A map and description of the entire existing and proposed service area.
 - The population, and number and type of residential, commercial, agricultural, and industrial service connections, in the system's projected service area.
 - Design drawings of proposed facilities drawn to scale, showing location, size, and construction material.
 - Well, storage and treatment data sheets if applicable.
 - As-built drawings of existing facilities.
 - The estimated Max Day Demand (MDD) and Peak Hourly Demand (PHD) as determined by a civil engineer with experience in water supply engineering.
 - A [source water assessment](#) and description of each source of water proposed for use.
 - Information that demonstrates how the system proposes to reliably meet four hours of PHD using available source capacity and distribution reservoirs.
 - [Technical, Managerial and Financial \(TMF\) Capacity Assessment](#).
 - Well completion report.
 - Copy of the source capacity test (see above).
 - [Bacteriological Sample Site Plan](#).
 - [Emergency Notification Plan](#).
 - Bacteriological and Chemical water quality tests as per CCR Title 22.
 - As-built plans
 - [Certificate of Operation Application](#)