



## WELL CERTIFICATION APPLICATION

<b>This application <i>must</i> be submitted with the required water quality tests, pump test information and photos of the surface features of the well. A physical inspection of the well may be required.</b>					
<b>PROPERTY OWNER INFORMATION</b>					
Name:					
Site Address:					
Primary Mailing Address (if different):					
Phone:			Email:		
<b>WELL INFORMATION</b>					
Site Address:					
APN:		Intended Use:		Other:	
C-57 Contractor:			License Number:		
Slab Size:	Well Head Height:	Number of Connections:	Well House/Cover: Yes      No	Check Valve: Yes      No	
Comments:					
<b>PUMP TEST INFORMATION</b>					
Static Water Level:		Draw Down:		Production Capacity:	
Sustained Yield:		Recovery Time:		Pump Size:	
<b>WATER QUALITY ANALYSIS</b>					
Bacteriological		Perchlorate		Chromium VI	
Nitrate		Arsenic		TCE and PCE	
				Gross Alpha and Uranium	
				Other:	
<b>Indemnification</b> – The Contractor agrees to indemnify, defend (with counsel reasonably approved by County) and hold harmless the County and its authorized officers, employees, agents and volunteers from any and all claims, actions, losses, damages, and/or liability arising out of this contract from any cause whatsoever, including the acts, errors or omissions of any person and for any costs or expenses incurred by the County on account of any claim except where such indemnification is prohibited by law. This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The Contractor’s indemnification obligation applies to the County’s “active” as well as “passive” negligence but does not apply to the County’s “sole negligence” or “willful misconduct” within the meaning of Civil Code Section 2782.					
<b>Electronic Signature Only:</b> By checking this box, I confirm I am submitting this application electronically and that the information on this form is true and correct. I also acknowledge that I have read, understand and accept any terms and conditions of this form.					
<b>NOTE:</b> Verification of the required water quality tests, pump test information and photos of the well’s surface features must be provided with the application in order for the application to be considered complete.					
Signature of Contractor:				Date:	
<b>For Office Use Only</b>					
Fee:		FA Number:		Record ID:	
PE Number:		Receiving OA:		Date:	
Late Fee:    Y    N			Date Approved:		
Approved By:					
Comments:					



## Constituents of Concern

Environmental Health Services (EHS) has identified areas within San Bernardino County which have elevated levels of constituents of concern (hazardous materials). All new well construction must be sampled for the hazardous materials found in that area. This sampling is in addition to total coliform and nitrate testing. The following link provides a list of available laboratories for testing:

<https://waterboards.maps.arcgis.com/apps/webappviewer/index.html?id=bd0bd8b42b1944058244337bd2a4ebfa>. Use the following table to determine which hazardous materials must be tested for in specific areas.

Constituent	Areas
Arsenic	<ul style="list-style-type: none"> <li>• Twentynine Palms and North of Twentynine Palms</li> <li>• Calico/Yermo</li> <li>• Hinkley</li> <li>• Kramer Junction</li> <li>• Newberry Springs to Ludlow</li> <li>• North of Barstow to State Line</li> <li>• Pioneertown</li> </ul>
Perchlorate	<ul style="list-style-type: none"> <li>• Barstow (near the I-15 and Hwy 58) intersection</li> <li>• Fontana</li> <li>• Loma Linda</li> <li>• Ontario</li> <li>• Rialto</li> <li>• Victorville (within a 5-mile radius of the former George Air Force Base)</li> </ul>
Gross Alpha and Uranium	<ul style="list-style-type: none"> <li>• Baldwin Lake</li> <li>• Big Bear</li> <li>• Crestline</li> <li>• Fawnskin</li> <li>• Lake Arrowhead</li> <li>• Morongo Valley</li> <li>• Pioneertown</li> <li>• Running Springs</li> <li>• Twin Peaks</li> </ul>
Chromium VI	<ul style="list-style-type: none"> <li>• Hinkley</li> <li>• Oak Hills</li> </ul>
Chlorinated Solvents (e.g. TCE or PCE)	Victorville (within a 5-mile radius of the former George Air Force Base)



## Water / Wastewater / Land Use Section

### Pump Test Guidelines

Residential or commercial use of a well as a potable water source requires a well pump test to obtain approval from Environmental Health Services (EHS). The guidelines outlined in this document are to be used when performing a well pump test.

Anyone performing a pump test for the purpose of establishing water availability for new developments, well sharing or a well certification required by Building and Safety must submit an application and secure a permit from EHS. The pump test must be performed by either a/an:

- C-57 contractor (licensed well driller),
- Civil engineer,
- Registered geologist,
- Registered Environmental Health Specialist (REHS), or
- Approved company that provides such services (e.g. Edison or Pump Check).

A meter must be used to determine the flow. The pump test results must be submitted to EHS for review and must provide, at a minimum, the following information:

- Static water level
- Draw down (pumping water level)
- Production capacity (gallons or cubic feet per minute)
- Test duration (hours)
- Sustained yield (gallons or cubic feet per minute)
- Recovery time
- Pump size (horsepower)

The duration of the pump test will be determined by the sustained yield of the well as indicated below:

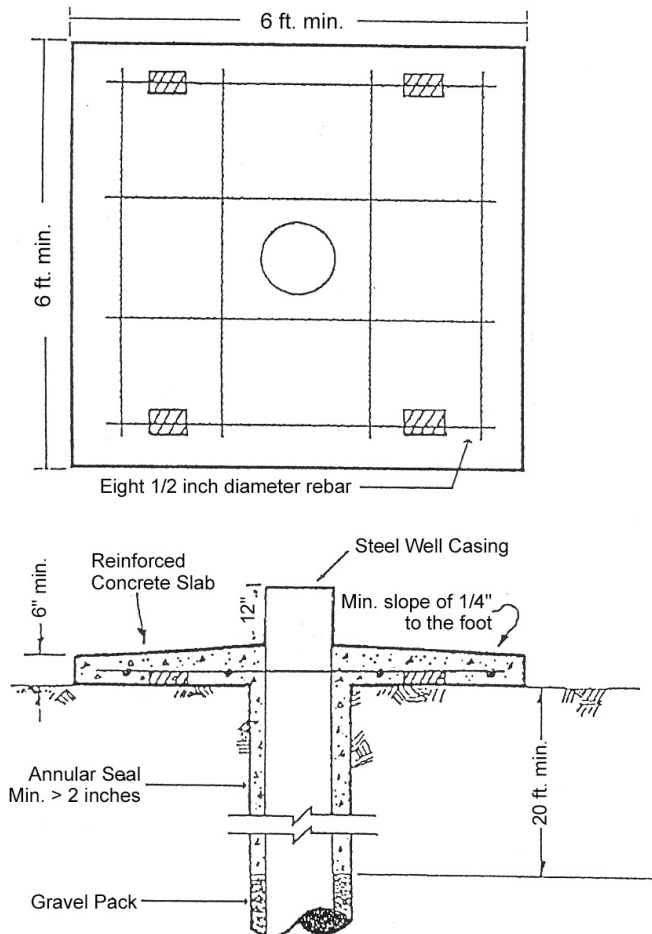
- 10+gpm 2 hours
- 3-9gpm 4-hours
- <3gpm 8-hours

Any well that cannot meet the listed sustained yield durations will require additional testing. The additional test duration is dependent upon the well's initial sustained yield.

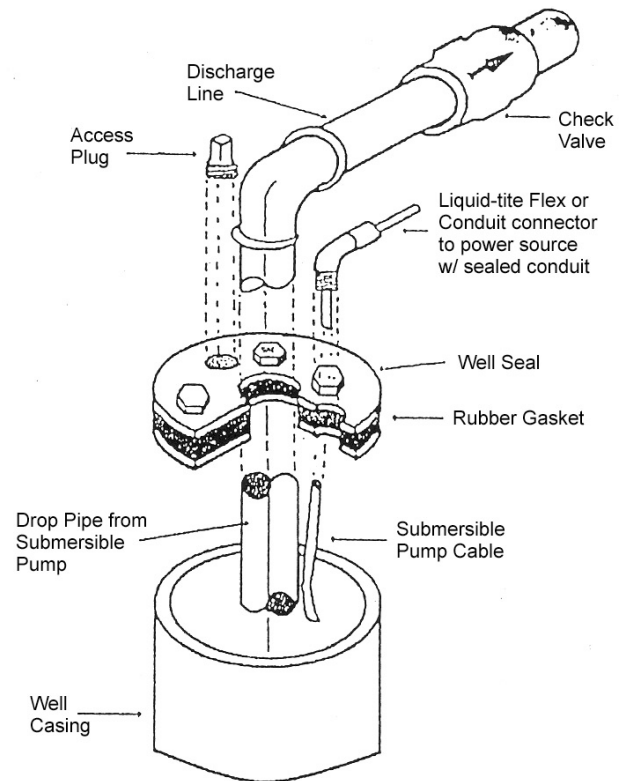
EHS may grant an exemption to the pump test requirements provided it has sufficient information regarding the groundwater basin to ensure an adequate water supply is available for the project.

## TYPICAL INDIVIDUAL WELL

### SURFACE SLAB DETAIL



### PUMP INSTALLATION DETAIL



**Well Seal:** A properly sized well seal must be installed so as to provide a watertight seal between the casing and drop pipe.

**Electric Wire Connection:** The conduit must be connected to the well seal by a threaded joint. All materials used must be rain tight, Underwriters Laboratories (UL) labeled equipment.

**Check Valve:** A check valve must be provided on the discharge line as close to the pump as possible and be located above ground. No appurtenances may be located on the discharge line between the pump and the check valves with the exception of air and vacuum valves.

**Access Plug:** A tapped opening with a threaded plug must be provided in order that chlorine may be introduced directly into the well.

**Dimensions:** The slab must extend horizontally at least three feet from the center of the well casing in all directions.

**Concrete Mix:** When ordering ready-mix concrete, specify at least 5-sack mix. When mixing your own, use 1-1/3 sacks of cement to 3 cubic feet (cu ft.) of sand and 4 cu ft. of crushed rock or gravel.

**Annular Seal:** Cement grout or concrete mix may be used as well as Bentonite. When mixing your own grout, do not use more than two parts by weight of sand and one part of cement to 5-7 gallons of water.