



MONITORING WELL & SOIL BORING APPLICATION & PERMIT

ENVIRONMENTAL MANAGEMENT DEPARTMENT (EMD) – ENVIRONMENTAL COMPLIANCE DIVISION
11080 WHITE ROCK ROAD • SUITE 200 • RANCHO CORDOVA, CA 95670
TELEPHONE (916) 875-8400 FAX: (916) 875-8513 EMAIL: wells@saccounty.net

WELL INSPECTION LINE: (916) 875-8524

Is this permit related to a hazardous substance investigation? ___ Yes ___ No

FOR OFFICE USE ONLY	
EMD PERMIT NUMBER(S): _____	DATE APPLICATION APPROVED: _____ <small>(EXPIRES 1-YR FROM DATE OF APPROVAL)</small>

WELL APPLICATION			
Project Site Address:	Well Location (Attach Table for Multiple Addresses):		
Nearest Major Cross Street(s):	Parcel Number (Attach Table for Multiple Parcels):		
Property Owner Name:	Property Owner Phone Number:		
	Property Owner Email:		
Well Drilling Contractor:	Mailing Address:	Phone Number:	
		Email:	
Contractor's CSLB License No.:	Expiration Date:		
Well/Boring Identification Number(s):			

WELL/BORING INFORMATION							
INTENDED USE: <input type="checkbox"/> Exploratory Boring (PE4942) <input type="checkbox"/> Water/Vapor Monitoring and Extraction (PE4940) <input type="checkbox"/> Permanent Dewatering (PE4940)							
DRILLING METHOD:	<input type="checkbox"/> Mud Rotary	<input type="checkbox"/> Air Rotary	<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Auger – Hollow Stem	<input type="checkbox"/> Auger – Solid Flight	<input type="checkbox"/> Driven	<input type="checkbox"/> Other:

PROPOSED SPECIFICATIONS							
Borehole ID	Diameter: _____ in	Casing Material: _____; _____ Gauge (if Steel)	Annular Sealing Material: _____ and _____; Depth: _____ ft to _____ ft	Transition Material: _____ and _____; Depth: _____ ft to _____ ft	Filter Pack Material: _____ and _____; Depth: _____ ft to _____ ft	Screened Interval: _____ and _____; Depth: _____ ft to _____ ft	
Total Depth: _____ ft							
Borehole ID	Diameter: _____ in	Casing Material: _____; _____ Gauge (if Steel)	Annular Sealing Material: _____ and _____; Depth: _____ ft to _____ ft	Transition Material: _____ and _____; Depth: _____ ft to _____ ft	Filter Pack Material: _____ and _____; Depth: _____ ft to _____ ft	Screened Interval: _____ and _____; Depth: _____ ft to _____ ft	
Total Depth: _____ ft							
Borehole ID	Diameter: _____ in	Casing Material: _____; _____ Gauge (if Steel)	Annular Sealing Material: _____ and _____; Depth: _____ ft to _____ ft	Transition Material: _____ and _____; Depth: _____ ft to _____ ft	Filter Pack Material: _____ and _____; Depth: _____ ft to _____ ft	Screened Interval: _____ and _____; Depth: _____ ft to _____ ft	
Total Depth: _____ ft							

APPLICANT INFORMATION			
I understand and agree that all work associated with this permit is required to be done in accordance with Sacramento County Code Chapter 6.28 (Well Ordinance), California Department of Water Resources Well Standards, and the conditions of this permit. I understand that permitting and inspection time in excess of the original fee amount will be billed to the applicant - As authorized by SCC 6.99.180. I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid. Each page of this document has been reviewed and is complete and correct. I understand that it is my responsibility to notify the well owner of their responsibility to provide EMD with property access for a final well inspection. An Authorization Letter is required if an Agent is submitting this application on behalf of the well owner or well driller.			
Applicant Name:	Applicant Signature:	Date:	
Applicant's Company Name:	Applicant's Office and Cell Numbers:	Applicant's Email Address:	
Applicant's Mailing Address:			
Applicant is the: <input type="checkbox"/> Agent (Requires Authorization Form) <input type="checkbox"/> Property Owner <input type="checkbox"/> Well Contractor			

IMPORTANT: GIVE AT LEAST 24-HOUR NOTICE TO THE EMD WELL INSPECTION LINE WHEN SCHEDULING YOUR INSPECTION.

WELL SITE PLAN – TO BE COMPLETED BY APPLICANT

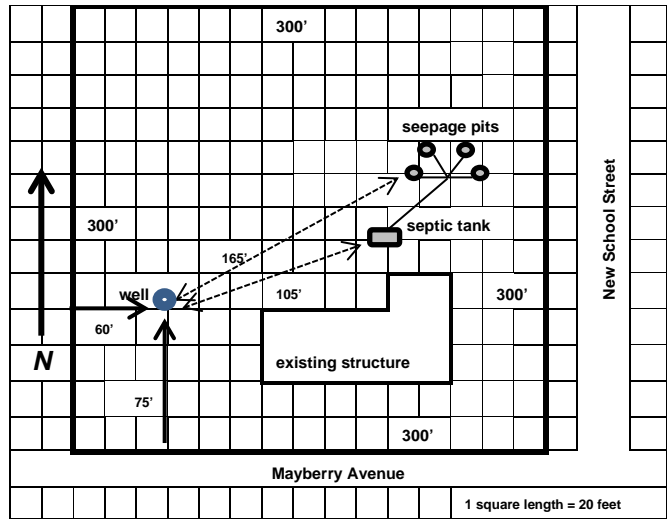
MINIMUM REQUIREMENTS

1. North arrow, parcel dimensions, and scale
(1-inch = _____ feet)
2. **Minimum of two measurements (with right angles)** to the proposed well in feet (must be able to locate well using the site plan).
3. **Location of site features** including major buildings, landscaped areas, tank fields, existing wells, septic systems, easements, cross streets, etc.
4. Setback distances in feet to all existing wells, septic systems **(including all adjacent parcels w/in 150 feet of proposed well site)**, and other potential pollution sources.
5. For some remote sites, include appropriate landmarks so that inspector can locate project site (e.g. access and driveway approach, mile post markers, equipment staging location).
6. **NOTE:** Incomplete site plans will delay permit processing.

Well Site Address: _____

Well Permit Number: _____

EXAMPLE



A large grid area for the applicant to draw their well site plan. The grid is composed of small squares, each representing 20 feet by 20 feet. The grid is bounded by the top and right edges of the page.

GENERAL WELL PERMIT REQUIREMENTS (SEE SACRAMENTO COUNTY CODE (SCC) CHAPTER 6.28 FOR DETAILED LOCAL WELL REQUIREMENTS)	
1	The annular seal's minimum borehole size must be at least 4 inches greater in diameter than the outside diameter of the well casing and any other pipe(s) in the borehole. This borehole will be drilled to the minimum annular seal depth [SCC 6.28.040(A)(2)(e)].
2	The minimum annular seal depth requirement is 50 feet below ground surface concurrently anchored in an impervious soil layer. At time of inspection, the applicant is required to provide a soil log demonstrating the annular seal is anchored in an impervious soil layer and to physically measure the annular seal depth [SCC 6.28.040(A)(2)(a)]. Deeper seals may be required in certain conditions, such as if the following setbacks are not met: A. 50 feet away from any sewer line, stream/ditch/drainage course, pond or lake, or public water supply well; B. 100 feet away from a septic tank, leach lines, deep leach trench; animal or fowl enclosure; and C. 150 feet away from a septic leaching pit or hazardous materials tank [SCC 6.28.040(A)(1)(a)]. EMD REQUIRED SEAL DEPTH: _____
3	An EMD inspection is required for sealing material placement. Contact (916) 875-8524 to request an inspection; a minimum of 24-hours' notice is required [SCC 6.28.90].
4	EMD APPROVED ANNULAR SEALING MATERIALS Neat cement will be mixed at a ratio of one ninety-four (94) pound sack of Portland cement to 5 to 6 gallons of clean water. Additional water may be required where special additives, such as bentonite, accelerators, or retardants are used. Sand cement will be mixed at ratio of not more than one hundred eighty-eight (188) pounds of sand to one ninety-four (94) pound sack of Portland cement (2 parts sand to 1 part cement, by weight) and about 7 gallons of clean water. This is equivalent to a "10.3 sack mix." Less water shall be used if less sand than 2 parts sand per 1 part cement by weight is used. Additional water may be required when special additives, such as bentonite, accelerants, or retardants are used. Concrete will consist of Portland cement and aggregate mixed at a ratio of at least 6 ninety-four (94) pound sacks of Portland cement per cubic yard of aggregate. The size of the aggregate must be less than 1/5 th the radial thickness of the annular seal. Bentonite clay may only be used with prior EMD approval. Bentonite shall be commercially prepared, powdered, granular, pelletized or chipped sodium montmorillonite clay. The size of pellets or chips must be less than 1/5 th the radial thickness of the annular space. Bentonite slurries are not approved [SCC 6.28.040(A)(2)(d)]. EMD staff will reject any sealing materials during inspection that do not meet standard.
5	Transition seal materials can be up to 5 feet in length, consist of bentonite or fine sand, and must be placed in the annular space using a tremie device or equivalent to separate filter pack and cement-based sealing materials. If bentonite is used and the interval to be sealed is dry, water shall be added to the transition seal and allowed to set for at least two hours before placement of cement-based sealing material [SCC 6.28.040(A)(2)(f)].
6	All casing material must meet the size and material standards listed in 6.28.040(A)(5).
7	Centralizers shall be equipped on the production casing to ensure the 2-inch minimum radial thickness of the annular space is maintained, unless otherwise approved by EMD [SCC 6.28.040(A)(2)(f)].
8	Temporary conductor casing shall be withdrawn as sealing material is placed between the well casing and borehole wall, be placed at least to the minimum annular seal depth, and kept at a sufficient height above the bottom of the temporary conductor casing as it is withdrawn. If a permanent conductor casing is installed, an oversized hole, at least 4 inches greater in diameter than the outside surface of the permanent conductor casing shall be drilled to the bottom of the conductor casing or to at least the minimum annular seal depth and the annular space between the conductor casing and the borehole wall shall be filled with sealing material. A welded cover shall be installed over the top in the space between the conductor casing and the well casing (see Bulletin 74-81, page 33, Figure 5B) [SCC 6.28.040(A)(2)(c)].
9	Proper Disposal of Drilling Fluids and Soil Cuttings. The applicant is required to see that safe and appropriate measures are taken in the handling and disposal of drilling fluids, soil cuttings, and other materials used or generated in connection with the permitted work. All drilling wastes must be controlled so as not to create conditions that violate applicable local, State and Federal regulations [SCC 6.28.030(E)(2)].
10	Mud pits created to confine drilling fluids shall be maintained during the well drilling operation so as not to be a nuisance. It shall be the applicant's responsibility to see that the mud pit is properly evacuated and backfilled upon completion of the job [SCC 6.28.030(E)(3)].
11	The well casing, vent, electrical box, and water storage tank must extend above ground surface or the base flood elevation, whichever is higher (private water well: at least 12 inches above; municipal water well: at least 18 inches above) [SCC 6.28.040(A)(3)]. MIN. CASING HEIGHT: _____
12	The well cannot encroach on any easement (information available through the County Assessor's Office) [SCC 6.28.030(A)(1)].
13	Gravel used in gravel-packed wells shall come from clean sources, be thoroughly washed before placement into the well, and disinfectants will be added to the gravel at a uniform rate [SCC 6.28.040(A)(4)].
14	This permit may be revoked if the well is not in compliance with regulatory standards. Permittee and well owner agree to construct, operate, and maintain the well according to all applicable requirements listed in the Sacramento County Code and the California State Department of Water Resources (DWR) Well Standards [SCC 6.28.120(C)].
15	This permit is only valid for approved well-related work listed on the application. Well construction methods (e.g. drilling methods, annular sealing material, well depth, etc.) authorized under this permit may not be changed except by written approval of an authorized EMD representative and only if EMD believes that such a change will result in equal or superior compliance with the County and DWR Well Standards (e.g. if the EMD representative finds that site conditions warrant such a change) [SCC 6.28.120(C)].
16	This permit is only valid for the Assessor's Parcel Number listed on the application [SCC 6.28.120(B)(2)].
17	The permittee will notify EMD within 5 days of well work completion [SCC 6.28.090(C)].
18	The applicant shall submit a Well Completion Report (WCR) to EMD within 60 days of work completion [SCC 6.28.110(A)].
19	Well owner required to provide property access to EMD for final inspection; well cannot be put into service until final inspection completed [SCC 6.28.090(C)].
20	Permittee shall maintain a copy of the permit at the work site during all stages of permitted activities [6.28.030(E)(5)].

