PERMIT CONDITIONS

(Selected Permit Requirements Apply)

FOR OFFICE USE ONLY □ General Request an inspection by email (wellpermits@zone7water.com) at least 24 hours before the start of work. Permit is void if project has not begun within 90 days of approval date. Applicant/Client/Owner assumes all liability associated with the execution of this permit. Violation of Permit Conditions may result in an order by Zone 7 to cease work, correct the violation, re-permit the work, and/or address other actions taken against Applicant/Client/Owner. Clear utilities prior to work commencement. Call 811 for more information. Submit all analytical results including soil, vapor, and groundwater samples to Zone 7 within 60 days of collection. California Well Standards and Alameda County Water Wells Ordinance apply unless otherwise required below. **Borings** Must be sealed within 24 hours of drilling ☐ GEOTECHNICAL If groundwater is encountered, tremie cement grout from total depth to ground surface displacing water from hole. Hydrated bentonite granules/chips may be used in unpaved areas for boreholes of diameter of 4 inches or greater, using augers as tremie. If groundwater is not encountered, fill borehole from total depth to ground surface with compacted cuttings, cement grout placed by tremie pipe, or hydrated bentonite granules/chips (minimum 4 inch diameter borehole) using augers as tremie. ☐ CONTAMINATION INVESTIGATION 1. Fill open hole with neat cement placed by tremie pipe to ground surface. Hydrated bentonite granules/chips may also be used in unpaved areas for boreholes of diameter of 4 inches or greater, using augers as tremie. Wells ☐ GENERAL – Submit within 60 days of work completion: 1. DWR Well Completion Report containing owner and Zone 7 well ID from drilling permit to both DWR and Zone 7 Water Agency. 2. Top-of-casing elevation and pump test results ☐ SUPPLY WELLS 1. Borehole diameter shall be at least 4 inches greater than the well casing diameter. 2. Minimum seal depth must be 50 feet. 3. Cement grout shall be pumped though tremie pipe. Plumbing An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements. A water spigot for sampling is required on the discharge pipe near the wellhead. ☐ MONITORING WELLS 1. Borehole diameter shall be at least 4 inches greater than the well or piezometer casing diameter. Minimum seal depth of 20 feet. Cement grout shall be pumped through tremie unless freefall exception is met. □ Destructions and Other Special Conditions

□ Seal Requirements

Cement grout

- Neat Cement 47lb Portland Type I /II or II/V cement to 3 gallons of water. Up to 5% bentonite powder by weight of cement.
- Sand Cement 10.3 sack mix. 94lb Portland Type I/II or II/V cement to maximum 188lbs sand, and maximum 7 gallons of water.

Tremie: Grout shall be placed by tremie pipe. Bottom of tremie must remain submerged in grout until hole is filled. Upper 2 feet may also be restored with compacted material.

Freefall: 30 feet or less below ground surface in unsaturated zone only.