



Classification: Engineering Geologist
 Position Number: 880-250-3756-121

DUTY STATEMENT

CURRENT PROPOSED

| | | |
|--|---|--|
| RPA Number: 25-250-147 | Classification Title: Engineering Geologist | Position Number: 880-250-3756-126 |
| Incumbent Name: VACANT | Working Title: Engineering Geologist | Effective Date: June 2026 |
| Tenure: Permanent | Time Base: Full Time | CBID: R09 |
| Division/Office: Division of Water Quality | | Section/Unit: Groundwater Monitoring Section Health Protection Zone Monitoring Unit |
| Supervisor's Name: Bill Patzelt | | Supervisor's Classification: Senior Engineering Geologist |

| | |
|---|------------------------|
| Human Resources Use Only: | |
| HR Analyst Approval: Kathleen Hill | Date: June 2026 |

| |
|--|
| General Statement |
| Under the close supervision of the Senior Engineering Geologist over the Oil and Gas Health Protection Zone Unit and consistent with good customer service practices and the goals of the State and Regional Board's Strategic Plan, the incumbent is expected to be courteous and provide timely responses to internal/external customers, follow through on commitments, and to solicit and consider internal/external customer input when completing work assignments. |
| Position Description |
| The Engineering Geologist will provide technical engineering and hydrogeologic expertise to implement the State Water Board's requirements of Senate Bill 1137 (Gonzalez, Chapter 1, Statutes of 2022), and to address the public's concerns for the health and safety of Californians that live near oil and gas operations, and the protection of water resources. The incumbent may travel to attend meetings, training, conferences, or other program-related events, including occasional overnight travel. Engineering Geologists will support development a program to meet the on-going requirements of SB 1137. |



| Essential Functions (Including percentage of time): | |
|--|--|
| 40% | Using geologic interpretation and professional judgment, provide oversight of water quality sampling and testing within oil and gas health protection zones. Evaluate surface and groundwater testing results to ensure the protection of beneficial use water. Utilize technical knowledge of water quality sampling processes to evaluate that samples have been collected in a manner consistent with standard environmental industry practices. Using geologic knowledge and technical expertise, manage submitted data in the State Water Board GeoTracker data management system. Provide consultation to operators in relation to development of appropriate sampling and analysis approach plans. Review and interpret technical information submitted by operators requesting waivers of water sampling, which may include working directly with both CalGEM and appropriate Regional Water Boards to provide a response to the operator. |
| 20% | Using sound geologic knowledge and judgment, review and interpret oil and gas operator submitted groundwater monitoring plans, and technical submittals requesting exclusion from groundwater monitoring, associated with well stimulation activities. Utilize technical knowledge of groundwater monitoring, fate and transport of contaminants, statistical analysis of environmental data, and groundwater geochemistry. Coordinate with regional water quality control boards on the interpretation and evaluation of groundwater monitoring data to assess groundwater quality associated with oil and gas related activities. Support on-going regional oil and gas monitoring program. Review and conduct peer reviews for draft manuscripts on findings (reports, factsheets, journal articles). |
| 15% | Review and make recommendations to management regarding aquifer exemption proposals and underground injection control (UIC) projects. Evaluate and interpret technical information including geologic cross-sections, geophysical logs, and related geologic and hydrogeologic data. Coordinate with regional water quality control board staff and CalGEM to determine if applicable federal and/or state criteria are met and if any current or future potential beneficial uses of water may be affected. Assist regional boards on produced water ponds issues in areas of oil and gas activities. |
| 10% | Analyze proposed legislation; respond to requests for information from the public and State Water Board management. The incumbent shall prepare written accounts of findings and determinations, and provide oral presentations for management, State Water Board members, and the public by implementing knowledge and understanding of the terms, concepts, and principles related to the fields of Environmental Justice, Diversity, Equity and Inclusion (DEI), and/or Racial Equity and demonstrated ability to work effectively with staff, teams, and stakeholders with diverse cultural, personal, and professional backgrounds and perspectives. Advise and consult, as necessary, with regional water quality control board staff regarding technical review, permitting, and water quality control issues. |



Classification: Engineering Geologist
 Position Number: 880-250-3756-121

Marginal Functions (Including percentage of time):

| | |
|----|---|
| 5% | Perform fieldwork associated with oil field sites including audits of groundwater monitoring and field sampling activities, underground injection projects, aquifer exemption submittals, and produced water ponds. |
| 5% | Prepare routine correspondence. Utilize the Water Boards' GeoTracker and GAMA information systems and CalGEM databases to access data. Duties may include assisting other Water Boards programs. |
| 5% | Perform other duties as required. |

Typical Physical Conditions/Demands:

The job requires extensive use of a personal computer and the ability to sit/stand at desk, utilize a phone, and type on a keyboard for extended periods of time. Fieldwork activities and conditions may require the ability to lift 15 pounds, bend and reach above shoulders to retrieve files and/or documents. Navigate uneven, rugged terrain for extended periods of time, in extreme temperatures throughout the workday, carry more than 50 lbs, standing/sitting for long periods of time.

Typical Working Conditions:

The incumbent works on the 15th floor of a high-rise office building in downtown Sacramento, in an enclosed, non-windowed office cubicle in a smoke-free environment. The work schedule is Monday through Friday. Mandatory overtime, including evening and weekend work may be necessary during the year end closing process or when the department is mission tasked. Travel may be required locally and within the state.

Supervisor Statement

I certify this duty statement represents an accurate description of the essential functions of this position. I have discussed the duties of this position with the employee and provided the employee a copy of this duty statement.

| | | |
|-----------------|----------------------|------|
| Supervisor Name | Supervisor Signature | Date |
| Bill Patzelt | | |
| Employee Name | Employee Signature | Date |
| | | |