Classification: Engineering Geologist
Position Number: 880-140-3756-062

DUTY STATEMENT

☐ **CURRENT** ☒ **PROPOSED**

RPA Number: 26-140-039	**Classification Title:** Engineering Geologist	**Position Number:** 880-140-3756-062
Incumbent Name: Vacant	**Working Title:** Engineering Geologist	**Effective Date:** TBD
Tenure: Permanent	**Time Base:** Full Time	**CBID:** R09
Division/Office: Water Quality Control Board, Region 4	**Section/Unit:** Land Disposal Unit and Wastewater Consolidation Unit	
Supervisor's Name: Majd Nima	**Supervisor's Classification:** Senior Engineering Geologist	

Human Resources Use Only:
HR Analyst Approval: **Date:**

General Statement
Under the supervision of a Senior Engineering Geologist 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

Landfills are engineered facilities designed to manage and dispose of municipal solid waste in a manner protective of human health and the environment. Under certain conditions, decomposition and chemical reactions within buried waste can generate excessive heat and result in subsurface elevated temperature (SET) events. SET events at landfills can adversely affect landfill operations and infrastructure and may result in landfill fires, increased landfill gas generation, slope instability, damage to containment systems, increased leachate production, releases of toxic or hazardous gases, and impacts to groundwater and surface water quality.

The incumbent is responsible for implementing permitting, compliance monitoring, and enforcement activities associated with waste discharge requirements (WDRs) for landfills and other waste management units that may affect groundwater quality, with particular emphasis on facilities experiencing SET events. The incumbent provides continuous availability and specialized technical knowledge to respond promptly to SET events and oversee corrective actions through completion.

The incumbent evaluates geologic, hydrogeologic, geotechnical, and water quality conditions; conducts field investigations and inspections; reviews technical reports and corrective action proposals; evaluates the integrity and performance of landfill environmental control systems; performs slope stability evaluations, heat-source analyses, and groundwater impact assessments that extend beyond routine landfill permitting activities.

The incumbent coordinates with regulated entities, other agencies, and stakeholders to ensure compliance with applicable regulatory requirements and protect groundwater quality and beneficial uses. The incumbent facilitates timely and consistent communication with affected communities, regulated entities, other agencies, and stakeholders impacted by SET events and other disaster related incidents.

Essential Functions (Including percentage of time):	
30%	**SET Event Early Detection and Monitoring** Monitor SET conditions, including subsurface temperature, landfill gas, leachate generation, groundwater elevations, and potential impacts to slopes, liners, leachate collection systems, and other environmental controls. Evaluate site conditions and assist in developing emergency response and corrective action measures. Review groundwater, surface water, stormwater, leachate, and other monitoring data to evaluate whether landfill operations or SET-related conditions are adversely affecting water quality. Perform periodic reviews of WDRs for existing waste management units, including landfills, land treatment units, and surface impoundments, and evaluate compliance with applicable Monitoring and Reporting Programs (MRPs). Evaluate subsurface temperature, landfill gas, leachate generation, groundwater elevation, and water quality data to identify trends or conditions that may indicate the development or progression of an SET event.
25%	**Permitting and Technical Report Review** Review SET mitigation plans, Corrective Action Plans (CAPs), Remedial Action Plans (RAPs), and other technical reports addressing investigation, containment, mitigation, and remediation of SET-related conditions. Review Reports of Waste Discharge (ROWDs), applications for WDRs, and supporting technical documentation, and make recommendations regarding the issuance, revision, rescission, or continuation of WDRs. Review technical reports for completeness and technical adequacy regarding geological, hydrogeological, and geotechnical aspects of the design, construction, operation, closure, and post-closure maintenance of waste management units. Evaluate landfill environmental control systems, including composite liner systems, leachate collection and treatment systems, hydraulic containment systems, subsurface barriers, drainage systems, and precipitation and stormwater controls. Review geological and geotechnical evaluations of landfill slope stability, settlement, seismic hazards, faulting, and other conditions that may affect the structural integrity or environmental performance of waste management units. Review closure and post-closure maintenance plans, including final cover systems, drainage controls, groundwater monitoring systems, and long-term monitoring requirements. Make recommendations regarding issuance, revision, continuation, or rescission of WDRs.

20%	**Oversight, Compliance, and Enforcement:** Oversee implementation of SET mitigation measures, CAPs, RAPs, and other corrective actions required by the Los Angeles Water Board. Conduct field inspections, including routine compliance inspections, pre-permitting inspections, complaint investigations, SET-related investigations, and sampling activities at landfills and other waste management units. Evaluate compliance with WDRs, MRPs, enforcement orders, corrective action requirements, and other applicable regulatory requirements. Identify potential violations and recommend appropriate compliance or enforcement actions to protect groundwater and surface water for beneficial uses. Prepare inspection reports, technical memoranda, enforcement correspondence, and other documentation describing field observations, findings, and recommended corrective actions. Prepare enforcement correspondence and assist in drafting formal enforcement actions, including Cleanup and Abatement Orders, Cease and Desist Orders, and Administrative Civil Liability Complaints, as appropriate. Ensure that permits, technical reports, inspection records, enforcement actions, correspondence, monitoring information, and other regulatory records are entered into and maintained in the appropriate Water Boards databases and document management systems.
20%	**Internal and Interagency Coordination, Public Participation, and Outreach** Participate in internal, interagency advisory groups, incident response teams, and SET oversight meetings, including Chiquita Canyon Landfill coordination, as assigned. Coordinate with California Environmental Protection Agency (CalEPA), Department of Toxic Substances Control (DTSC), South Coast Air Quality Management District (SCAQMD), CalRecycle, State Water Resources Control Board, Los Angeles Water Board, Local Enforcement Agencies (LEAs), Office of Environmental Health Hazard Assessment (OEHHA), and other local, state, and federal agencies. Participate in public and community meetings and provide clear, technically accurate information regarding SET conditions, regulatory requirements, investigations, and corrective actions. Provide written and oral communication with dischargers, consultants, regulatory agencies, interested parties, and members of the public as part of project management and regulatory oversight of waste management units.
Marginal Functions (Including percentage of time):	
5%	Perform other duties as required.

Typical Physical Conditions/Demands:
The job requires extensive use of a personal computer and the ability to remain stationary at a desk, use a phone and keyboard for extended periods of time. The ability to retrieve and/or move files, documents, or materials up to 15 pounds.. The job requires fieldwork that involves navigation of uneven, rugged terrain for extended periods of time, in extreme temperatures throughout the workday, occasionally carry more than 50 lbs., and remain stationary for long periods of time. Travel independently to inspections sites.
Typical Working Conditions:
The incumbent works on the first floor of a 10-floor office building in downtown Los Angeles, in an enclosed, non-windowed office cubicle in a smoke-free environment. The work schedule is Monday through Friday and involves hybrid telework based on operational needs as specified by the agency. The incumbent is also required to come into the office as needed. 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	Supervisor Signature	Date
Majd Nima		
Employee Name	Employee Signature	Date