

## ENVIRONMENTAL HYDROGEOLOGIST

<b>SUMMARY</b>	Research the quantity, quality, and availability of groundwater and surface water; collect hydrogeological data and interpret analytical results; study the fate and transport of environmental pollution in surface and groundwater. Conducts risk analyses of groundwater vulnerability including evaluation, costing and implementation of site remediation.
<b>PRIMARY DUTIES &amp; RESPONSIBILITIES</b>	Review environmental technical program documents and applications. Perform site visits, data collection, conduct environmental inspections and investigations. Perform environmental calculations. Review and prepare hydrologic maps. Interpret trends in hydrologic and environmental data. Provide assistance to the regulated community, staff, and the public. Participate in the selection of external contractor to perform environmental technical work, including scope of work and budget and review contractor developed reports. Perform site or regional hydrologic or TMDL studies. Reviews or prepares hydrogeological models to analyze pollutant fate and transport.
<b>KSA's</b>	Principles of ground and surface water flow. Principles of fate and transport of chemicals in ground and surface water. Agency policies, state and federal environmental regulations. Remedial Technologies. Chemical composition, structure and properties of substances and of the chemical processes and transformations they undergo in the environment. Arizona geography, aquifers, and surface water bodies. Chemical composition, structure and properties of substances and of the chemical processes and transformations they undergo in the environment

JOB TITLE	ENVIRONMENTAL HYDROGEOLOGIST 1	ENVIRONMENTAL HYDROGEOLOGIST 2	ENVIRONMENTAL HYDROGEOLOGIST 3	ENVIRONMENTAL HYDROGEOLOGIST ASSOCIATE	ENVIRONMENTAL HYDROGEOLOGIST SENIOR	ENVIRONMENTAL HYDROGEOLOGIST PRINCIPAL
JOB CODE	S10102	S10101	S10100	S10099	S10098	S10097
GRADE	21	22	23	25	27	28
FLSA STATUS	NON-EXEMPT	NON-EXEMPT	EXEMPT	EXEMPT	EXEMPT	EXEMPT
<b>DUTIES AND RESPONSIBILITIES</b>  <i>Individual positions may be responsible for some or all of the listed duties and/or other related duties.</i>	Review basic environmental technical/program documents and applications. Assist with site visits, data collection, inspections, and investigations regarding environmental topics; Review and prepare basic hydrologic maps. Assist in need assessment and selection of external contractor to perform environmental technical work, including scope and budget, and assist in review of contractor developed reports	Review environmental technical/program documents and applications. Assists in the review of complex issues and facilities. Assists in the review of complex issues and facilities. Participate in site visits, data collection, inspections, and investigations regarding environmental topics. Interpret basic trends in hydrologic and environmental data. Assists in research for regional hydrologic or TMDL studies. Prepares surface water feature maps and geologic cross sections. Perform complex environmental calculations based on provided methodologies. Assist in preparing environmental guidance documents	Review complex environmental technical/program documents and applications. Provides recommendations based on the review and evaluations. Review complex environmental technical/program documents and applications. Provides recommendations based on the review and evaluations. Lead site visits, data collection, inspections, and investigations regarding environmental topics. Apply site specific hydrologic and environmental data trends to site investigations and remedial measures. Assists in identifying data needs for regional hydrologic or TMDL studies. Prepares site models using provided methodologies. Perform complex environmental calculations based on provided methodologies. Suggest	Review complex environmental technical/program documents and applications. Review may in Oversee site visits, data collection, inspections, and investigations regarding environmental topics. Take lead role in complex site or regional hydrologic or TMDL studies. Prepares site models using provided methodologies. Recommends changes to methodologies as necessary. Provide expert technical assistance to the public, regulated community and ADEQ staff pertaining to environmental impact and regulation. Review recommended environmental decisions from other staff on complicated sites and recommends course of action. Represent the Department and speak at public meetings, Interagency committees, scientific groups,	Complete expert review of complex environmental technical/program documents and applications. Review may include approval. Team lead for cross-divisional issues. Coordinate multi-media site visits, data collection, inspections, and investigations regarding complex environmental topics. Take lead role in complex site or regional hydrologic or TMDL studies. Oversees the preparation of site models and the development of modeling methodologies. Coordinate hiring of external contractor to perform environmental technical work, based on need assessment, including scope and budget. Oversee oversight activities and review of contractor developed reports. Coordinate research and studies to identify	Work directly with Division Director as technical authority on the most difficult and high profile issues and provide final technical opinion for the agency. Guide and direct multi-media site visits, data collection, inspections, and investigations regarding complex environmental topics. Guide and direct complex site or regional hydrologic or TMDL studies. Directs the preparation of site models and the development of modeling methodologies. Guide, direct, and approve hiring of external contractor to perform environmental technical work, based on need assessment, including scope and budget. Direct oversight activities and review of contractor developed reports. Represent the Department and speak at high profile public meetings, Interagency

			improvements to methodologies.	meetings, and hearings on environmental topics	new technologies for environmental pollution abatement or control. Coordinate the development of and lead technical training for staff regarding environmental topics.	committees, and scientific groups. Lead research and studies to identify new technologies for environmental pollution abatement or control. Upon request serve as expert witness
<b>MANAGEMENT OF RESOURCES</b>	N/A	N/A	N/A	N/A	Identifies required resources; trains, schedules and monitors resources; may participate in hiring	Identifies opportunities for use of solutions to improve efficiency and reduce waste. Leads initiatives to develop solutions and processes to meet needs; Identifies unique innovative approaches. Uses logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems
<b>SUPERVISION RECEIVED</b>	High degree of supervision. Regularly provided specific instructions to complete tasks	Moderate degree of supervision. Regularly provided specific instructions to complete tasks	Works with minimal supervision and guidance.	Works with little or no supervision	Works independently	Works independently
<b>BUDGETARY RESPONSIBILITY</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>DECISION MAKING AUTHORITY</b>	N/A	N/A	N/A	Assist in the development of new environmental standards, rules, innovative technologies, statutes, policies, procedures and guidance	Lead the development of new environmental standards, rules, innovative technologies, statutes, policies, procedures and guidance	Guide and direct the development of new environmental standards, rules, innovative technologies, statutes, policies, procedures and guidance

<b>EDUCATION &amp; EXPERIENCE</b>	Bachelor's degree or higher in related field.	Bachelor's degree or higher in related field 2 years of experience Master's or Doctorate degree may substitute for two years of experience	Bachelor's degree or higher in related field. 5 years of experience Master's degree may substitute for two years of experience Doctorate may substitute for four years of experience	Bachelor's degree or higher in related field. 8 years of experience. Master's degree may substitute for two years of experience Doctorate may substitute for four years of experience	Bachelor's degree or higher in related field. Master's degree or above preferred 10 years of experience Master's degree may substitute for two years of experience Doctorate may substitute for four years of experience	Master's degree or higher in related field. 15 years of experience Doctorate may substitute for four years of experience
<b>LICENSURE/ CERTIFICATION</b>	N/A	N/A	N/A	Professional registration through the Arizona Board of Technical Registration or an equivalent organization in a reciprocal jurisdiction required if available. If not available, professional certification through an accredited institution is required.	Professional registration through the Arizona Board of Technical Registration or an equivalent organization in a reciprocal jurisdiction required if available. If not available, professional certification through an accredited institution is required.	Professional registration through the Arizona Board of Technical Registration or an equivalent organization in a reciprocal jurisdiction required if available. If not available, professional certification through an accredited institution is required.
<b>OTHER SELECTIVE PREFERENCES</b>	"Geologist in-training" certification preferred through the Arizona Board of Technical Registration or an equivalent organization in a reciprocal jurisdiction.	"Geologist in-training" certification preferred through the Arizona Board of Technical Registration or an equivalent organization in a reciprocal jurisdiction.	Professional Geologist certification through the Arizona Board of Technical Registration or an equivalent organization in a reciprocal jurisdiction	N/A	N/A	N/A