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KIDIST TADESSE

EDUCATION

Ph.D. – Hydrogeology, Addis Ababa University, Ethiopia, 2025
(*Sponsored by REACH Program led by University of Oxford, UK)*
M.Sc. – Hydrogeology, Addis Ababa University, Ethiopia, 2016
B.Sc. – Earth Sciences, Addis Ababa University, Ethiopia, 2005

CERTIFICATIONS

OSHA 40 hours HAZWOPER
IGSH Certificate: Urban and Groundwater, Ruhr University, Germany

EMPLOYMENT HISTORY

2025 to present – Sevee & Maher Engineers, Inc., DBA UHL & Associates, Hydrogeologist
2023 to 2025 – Self Employed Researcher, Silver Spring, Maryland, Hydrogeologist
2011-2023– Ethiopian Construction Design and Supervision Works Corporation, Addis Ababa, Ethiopia, Senior Hydrogeologist
2008 to 2011 – Water Well Drilling Enterprise, Addis Ababa, Ethiopia, Hydrogeologist
2006 to 2008 – Yadot Water Hunters Plc., Addis Ababa, Ethiopia, Site Geologist

AFFILIATIONS

International Association of Hydrogeologists
Global Water Alliance
American Geophysical Union
Ethiopian Geosciences and Mineral Engineering Association (EGMEA)

PROFESSIONAL PROFILE

Ms. Tadesse is an experienced hydrogeologist with a strong background in international and domestic groundwater supply projects. With over a decade of professional experience, Kidist has developed strong expertise in the study, design, supervision and management of different water supply projects for municipal, industrial and agricultural applications. She is also experienced in monitoring water supply sources and environmental impact assessment works. She has demonstrated ability in data collection, analysis, interpretation, and reporting for complex hydrogeology projects.

Ms. Tadesse served as a senior hydrogeologist at the Ethiopian Water Works Construction Design and Supervision Works Corporation from 2011 to 2023. During this time, she led and contributed numerous large scale water supply projects including the study, design and supervision of 54 deep boreholes and monitoring wells project at the Addis Ababa city, water resource development for irrigation and drilling supervision project at Ada'a and Becho Plain (Oromia region) and Allaidege plain (Afar region) and different large and small scale projects in urban and rural area of Ethiopia. These projects involved comprehensive hydrogeological investigations, well sitting, drilling supervision, aquifer evaluation and long-term groundwater resource assessment and management. She has also been actively involved in surface water and groundwater interactions and monitoring programs, including water quality assessment and groundwater level monitoring.

Currently, she is working on multiple water supply projects in different townships and municipalities of New Jersey, focusing on well redevelopment, aquifer testing, and new well drilling projects in bed rock and glacial deposit aquifers. Her work involves field oversight, data analysis and interpretation, report preparation, and ensuring compliance with regulatory and technical standards.

Furthermore, Ms. Tadesse has also contributed to scientific publications on emerging organic contaminants, regional groundwater dynamics and tracing the water quality in urban pipe water, utilizing a range of analytical approaches including stable and radioactive isotopes as well as comprehensive water quality parameter assessment.

REPRESENTATIVE PROJECTS

Ms. Tadesse has been involved in drilling of well replacement, well redevelopment, specific capacity testing, aquifer testing and water quality monitoring and well specification preparation works in the following projects:

- East Orange Water Commission, City of Orange, Essex County, New Jersey
- Parsippany-Troy Hills Water Department, Parsippany, Morris County, New Jersey
- Essex Fells Water Department, Essex County, New Jersey
- Mountain Lake Borough Water Department, Morris County, New Jersey
- Borough of Franklin Water and Sewer Department, Sussex County, New Jersey

International Projects

- **Ethiopia, The World Bank and Ministry of Water and Energy:** Participate on the Managed aquifer recharge project to recharge the aquifer system and minimize the impact of flooding the Dire Dawa city, Ethiopia.

PUBLICATIONS

Kidist H. Tadesse, Seifu Kebede, Behailu Birhanu and Dan Lapworth, 2024. Tracing Contaminants of Emerging Concern In the Awash River Basin, Ethiopia, Journal Of Hydrology: Regional Studies.

Kidist H. Tadesse, Behailu Birhanu, Tilahun Azagegn, and Seifu Kebede. Regional groundwater flow system characterization of volcanic aquifers in upper Awash using multiple approaches, central Ethiopia. Journal of Isotopes in Environmental and Health Studies, 2023.

Seifu Kebede, Kidist H. Tadesse, Abdulhafiz Siraj, and Behailu Birhanu. Environmental isotopes (δO^{18}–$\delta^{2}H$, ^{222}Rn) and electrical conductivity in backtracking sources of urban pipe water, monitoring the stability of water quality and estimating pipe water residence time. Journal of Frontiers in Water, 2023.