

CURRICULUM VITAE

- 1. Name:** Korblaah
2. Nationality: Canadian
3. Place of Residence: Canada
4. Education:

Date (from – to)	Institution	Degree(s) or Diploma(s) obtained:
1997	University of Nevada	M.Sc. in Hydrology
1994	University of Toledo	Master of Science
1987	University of Ghana	B.Sc. (Hons) in Geology & Physics

- 5. Language skills:** Indicate competence on a scale of 1 to 5 (1 – excellent; 5 – basic)

Language
English

6. Key qualifications:

Pertinent Experience:

- More than 25 years leading and providing input to water supply and sanitation projects including 18 years of direct experience in Africa (Ghana, Sudan, South Sudan, Somalia, Kenya, Rwanda and Northern Uganda).
- Experience strengthening water supply and sanitation service delivery within a decentralized environment (Ghana and Indonesia). Experience working with stakeholders on service delivery capacity building, institutional strengthening, and gender integration activities.

Project Management:

- 25 plus years of experience managing and implementing rural and small towns' water supply and sanitation projects. Has led and managed teams from 2-130+ including international and local staff, consultants, and contractors.
- Experience managing water and sanitation projects covering design, implementation, and capacity building related to water supply and sanitation.
- Strong experience preparing progress and financial reports for submission to clients and project stakeholders. Have had direct responsibility for and managed large and small operational and implementation budgets (of up to approx. USD 30M), field offices, and project procurement activities on several water supply and sanitation projects.
- Experience and skills in designing and using results-based management tools for project planning, implementation, and performance measurement.

Water Supply & Sanitation:

- Broad technical background, including water supply design, construction management and supervision, procurement, and appropriate technology.
- Experience in small town water supply (piped, gravity fed, dug wells) and sanitation, including services for the poor, private sector participation, community management, demand-responsive approaches, community contracting, and O&M systems.
- Managed and provided technical expertise to build managerial and technical capacity of partner organizations in Ghana, Indonesia, Kenya, Rwanda, Sudan, South Sudan, Somalia, and Uganda.

Governance and Community Management:

Experience building capacity for government/community collaboration in a decentralized environment to design and implement WSS, including services for the poor, private sector participation, community management and support services, demand-responsive approaches, community contracting in Ghana, Indonesia, and Sudan.

7. Specific experience in the region:

Country	Date (from – to)
Canada	2009- 2015
Ghana	1987-1988
Sudan	1997–2000 & 2001–2003

8. Professional experience

Date (from – to)	Location	Organization	Position	Task, Assignments, Achievements
February 2015 to Present	Canada	MEK EARTH & ENVIRONMENTAL INC.	Principal Consultant/ Water and Sanitation Specialist	<p>Offering technical and managerial oversight in the execution of water and sanitation projects in natural and complex political emergencies, including insecure environments and diverse cultural and climatic settings and under pressure. Main activities include:</p> <ul style="list-style-type: none"> • Providing consultancy services in water and sanitation in project planning, designing, implementation, coordination, monitoring, evaluation and managing of emergency and developmental settings; • Providing professional expertise in groundwater prospection to locate suitable sites for boreholes and hand-dug well construction; • Offering expertise in managing and provision of safe drinking water, water source development, solid waste management and construction of hand pumps, latrine, wash rooms and school washing places; • Giving technical and managerial support and recommendations to governments and non-governmental organizations and communities in developing appropriate and sustainable technologies to improve access to safe drinking water supply and sanitary facilities, water quality management and developing water quality standards; • Providing overall strategic planning leadership and technical backing on Water, Sanitation and Hygiene programmes to water and sanitation projects; • Offering technical advice on the design and construction of latrines,

				<p>bath rooms and laundries; and</p> <p>Developing programs to facilitate community participation and ensure participatory development of programs in line with local and cultural requirements, guidelines and policies.</p>
2014 to 2015	Canada	SECURE ENERGY SERVICES	Technical Advisor/Senior Hydrogeologist	<p>Responsible Member for hydrogeological and environmental services for the Onsite Remediation/Reclamation and Planning /Regulatory sectors of Secure Energy Services Group. In this role, I was responsible for the professional reviews, upgrades and approval (final sign off) of all hydrogeological and environmental reports of projects completed at abandoned and active contaminated sites (with very complex soil and groundwater problems) for large volume Oil and Gas clients and Energy companies in Alberta and British Columbia.</p> <p>Additionally, responsible for risk assessment and large-scale remediation planning and research into alternative technologies. Key Responsibilities:</p> <p>Oversee field work and ensuring all company and client safety protocols are adhered to and training and mentoring of junior staff.</p> <p>Resource planning for upcoming projects and ensuring project timeline and scopes are understood by all employees and consultants working on each project.</p> <p>Prepare timely project budgets and review variances with Operations Supervisor when necessary.</p>
2010 – 2013	Ghana	Canadian Advisory Agency/Cowater International Inc.	Canadian Team Leader	<p>Had responsibility for community development activities, capacity building, technical assistance, staff training, water supply and sanitation, and health education programs. Managed field teams of 22 full-time staff and 20 Canadian and Ghanaian consultants, allocating tasks and overseeing activities to ensure alignment with project implementation plan, quality standards, and results-based management principles; participate in staff performance reviews. Had overall responsibility for the preparation of quarterly / annual</p>

				<p>reports detailing project progress and financials. Promoted effective and efficient communication between project offices and Cowater Ottawa; co-ordinated efforts of suppliers, contractors, Canadian International Development Agency team, GoG agencies, and participating Ghanaian organizations and stakeholders. Organized and attended Project Steering Committee and Investment Committee meetings. Key Achievements:</p> <ul style="list-style-type: none"> • Serve as essential liaison, playing a key role in elevating the working relationships between ~58 Ghana government stakeholders at national, regional, and district levels and the Canadian Advisory Agency. • Revitalized an underperforming flagging program that was three years in progress upon accepting the position by replacing workforce with qualified professionals and re-designing implementation strategy. • Improved procedures for monitoring and coding fund utilization at field and headquarters, significantly enhancing tracking and control of funds disbursement spanning all levels of project implementation. • Successfully led the design and completion of social-economic feasibility study reports for 20 small towns (with population ranging from approximately 2,500 to more than 20,000 people) which were to benefit from the construction of piped water systems. • Ensured that water well site selection activities leading to the identification of successfully drilled high yielding water well sites were carried out systematically and completed at optimal costs. • Effectively monitored and provided inputs in all technical aspects of project implementation; including topographic studies, environmental impact studies
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2009- 2010	Canada	Kala Geosciences Ltd.	Project Manager/Hydrogeologist	<ul style="list-style-type: none"> • Responsible for leading the development of potable water sources in First Nation Communities in British Columbia in line with the Canadian Protocol for Safe Drinking Water in First Nation Communities. The protocol contains standards for the design, construction, operation, maintenance, and monitoring of drinking water systems for small community systems and public facilities. As manager of the water program, responsible for managing teams ranging from 2-12 persons. • Additional responsibilities included the long-term evaluations of capacities (yield) of municipal and industrial wells; source water development and well head protection studies; evaluation of groundwater treatment options; and planning and overseeing the implementation of groundwater quality monitoring programs. • Involved in the development and management of piped water system for the Regional District of Kitimat Stikine (5000 persons). The system relies on three wells at the main sources. <p>Refined project budgeting procedures and introduced budget utilization controls to ensure projects are executed within approved limits.</p>
2006-2009	Canada	Pollutech EnviroQuatics	Project Manager/Geo Environmental Scientist	<ul style="list-style-type: none"> • Responsible for analyzing and interpreting groundwater quality and environmental/sanitation data for industrial sites and developing shallow groundwater flow models, as well as project management of site

				<p>investigations. Determined degree/type of potential and existing contaminants. Scheduled geotechnical and containment testing. Accurately prepared reports and proposals, including evaluating data and devised effective remedial alternatives. Briefed and debriefed co-workers, junior staff, and subcontractors on all pertinent activities.</p> <ul style="list-style-type: none"> • Successfully liaised with clients, consulting groups, regulatory agencies, and civic officials, ensuring approval of projects and processes and reviewing preliminary investigation and geo-environmental reports. <p>Managed field activities and teams ranging from 3-12 staff members.</p>
2005	Indonesia	World Vision	Water and Sanitation Advisor	<ul style="list-style-type: none"> • Coordinated the evaluation of groundwater resources within World Vision project area in the North Sumatra region of Banda Aceh/Meulaboh to determine best approach to address water and sanitation needs. • Facilitated meetings and discussion with stakeholders to identify requirements and generate solutions. Utilized advanced technology to gather and track survey information; developed maps used to assess data. Established work protocols. Developed proposals and project budgets. • Managed field activities and a multidisciplinary team (up to 50 staff) including international and national experts. Recruited and trained staff. • Spearheaded tailored initiatives designed to gather key data quickly and efficiently, including groundwater distribution, hydrologic characteristics and water supply quality and quantity throughout northern Sumatra. • Reduced overhead and increased quality of deliverables by re-designing organizational structure to transition work assignments away from under-performing contractors while optimizing. <p>Prepared regular progress and financial reports for submission to client and counterpart agencies.</p>
2003-2005	Ghana	Aquageo Services Limited	Operations Manager/Hydrogeologist	<ul style="list-style-type: none"> • Engaged in and managed a variety of projects to implement water programs throughout

				<p>Ghana funded by international organizations, including the World Bank, European Union and DANIDA.</p> <ul style="list-style-type: none"> • Led reconstruction of local hydrogeology resources by analyzing maps, identifying geology, hydrogeology, topography, drainage and vegetation and interpreting well log records. • Managed selection of favourable sites to drill wells, designed well structures and conducted water quality analyses. Designed and used geophysical exploration techniques to locate structures associated with groundwater (aquifers) and to trace contaminant paths. Interpreted results and compiled detailed reports. <p>Perpetuated strong current knowledge of advancing hydrogeological and environmental issues by actively participating in task forces, committees and professional associations.</p>
1997–2000 & 2001–2003	Sudan	World Vision	Water and Sanitation Program Manager	<ul style="list-style-type: none"> • Oversaw planning and management of water resource development activities. Compiled and analyzed data of existing water sources (piped and borehole systems) in targeted communities to formulate baseline report. Identified and used appropriate geophysical exploration techniques. • Established a program for the training and capacity building of beneficiary community members to enable them to maintain and operate the systems. • Established a health education program and ensured appropriate health and hygiene activities were initiated in beneficiary communities prior to the construction facilities. • Implemented a program for regular monitoring and evaluation of water and sanitation facilities to obtain feedback from beneficiary communities and to incorporate concerns into future campaigns. • Developed project proposals, annual budgets and periodic reports in compliance with international standards.

				<p>Prepared project and program monitoring frameworks, logic models and logframes to guide results monitoring.</p> <ul style="list-style-type: none"> Managed field office and field activities and had overall responsibility for program management and implementation activities. This included management, direction and leadership of 12 international experts and 120 national team members (engineers, hydrogeologists, designers, sanitation education specialists, community development officers, trainers and capacity development specialist). Managed and reported on a USD 3M operational budget. <p>Championed and developed an effective groundwater exploration unit using a combination of terrain evaluation and geophysical techniques to select and complete 150 successful water well sites.</p>
2000–2001	Sudan	International Rescue Committee	Coordinator	<ul style="list-style-type: none"> Led strategic groundwater resource and environmental sanitation program development. Completed hydrogeological, environmental sanitation and socio-economic impact assessments. Provided technical guidance, training and capacity building for staff members. Recruited, trained and mentored international multi-disciplinary technical team. <p>Raised approximately USD 1M by forging strategic partnerships with global and domestic corporate organisations and relevant government divisions.</p>
1994–1997	United States	University of Nevada	Hydrogeologist/Graduate Research Assistant/Field Team Leader	<ul style="list-style-type: none"> Used SPOT and Landsat data, aerial photographs and GIS techniques to locate water-bearing fractures and prospective well sites. Prepared hydrogeological and environmental presentations; participated as speaker, panellist and subject matter expert in public focus groups, hearings and other meetings pertaining to water and environmental sanitation facilities. Provided technical support to geophysical exploration crew. <p>Conducted in-depth investigation into techniques to produce higher-</p>

				yielding wells, bringing drilling success rate from a low of 10% to upwards of 63%.
1988-1992	Ghana	World Vision	Field Hydrogeologist	<ul style="list-style-type: none"> • Provided technical (hydrogeological interpretations) and operational support to the World Vision Ghana Rural Water Program at the field level. Was responsible for borehole site selections; well logging and taking decisions on well final completions depths; well designs; well development and aquifer recovery tests. • Liaised with the District Secretaries, Administration Officers, Chiefs, Community Leaders and Elders to plan and implement the drilling sector's agenda at the district and community levels. <p>With the exception of the Upper West Region, worked in all the regions in the country and selected and supervised the drilling of over 500 community water wells.</p>
1987-1988	Ghana	Ghana Geological Survey Department	Assistant Seismologist/Geologist	n/a

14. Other relevant information (eg. Publications):

Service in and knowledge of developing countries: Long term assignments (as resident) in Ghana (1987-1992, 2003-2005 and 2010 -2013), South Sudan/Kenya (1997-2001), Sudan (2000 – 2001) Somalia (2001-2003), and Indonesia (2005).

Supportive experience: As a Ghanaian-Canadian, I have had an excellent appreciation for the sub-Saharan environment; and also with recent reforms and initiatives related to water and sanitation. Strong cultural sensitivity and cross-cultural communication skills. Experience with integrating gender equality and equity considerations into project implementation.

Publications/presentations: Approximately 25 peer-reviewed publications.

- Carr, James and Korblaah Matanawi, "Correspondence Analysis for Principal Components Transformation of Multispectral and Hyperspectral Digital Images," Photogrammetric Engineering and Remote Sensing, 8/1999.
- Taylor, Kendrick, Korblaah Matanawi, Tim Minor and Mathew Chesley, "Cost Effectiveness of Well Site Selection Methods in a Fractured Aquifer," Ground Water, 3-4/1999.
- Korblaah Matanawi, Shallow Groundwater Exploration in a fractured Rock Terrain, Ghana, West Africa. 35 pgs
- Korblaah Matanawi, The Groundwater Resources of Erie County, Ohio, U.S.A. 132 pgs.
- Enoch Korblaah Matanawi, The Geology of Okrakwadjo and Surrounding Areas (Koforidua S.E.), Ghana 50 pgs.

Membership in Associations:

- Canadian Environmental Certification Approval Board (CECAB)/EcoCanada
- Association of Professional Engineers and Geoscientists of Alberta (APEGA), Canada
- Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), Canada