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Water and Wastewater Scientists and Engineers

Client	Selected Project References	Location	Dates	Outcome/results
Northlands	Concept and detailed design of natural (Lagoons and Wetlands) wastewater treatment for dairy processing plant.	Nairobi	2019 to date	-In progress- targeting for the effluent to meet NEMA Standard Treating 2,350,000 L/day of wastewater
Norkan Investment Ltd	Development of a Sustainable water supply strategy for a Mixed-use development. The project also includes the mapping and preservation of the Mokoyeti River and its wetland.	Langata, Nairobi	2023 to November 2024	Water sufficient and sustainable property without water rationing and shortages.
CKL Africa	Design, supply, installation, and maintenance of 11 point of use RO dispensers.	Nairobi	2023 to date	Purified water at point of use saving the company up to 37.1% of the cost of buying bottled water. Reduced risks of workplace injuries and hazards related to carrying many 20L water bottles. Purifying 1,320 L/day of drinking water
Rosslyn Academy	Design and implementation of water master plan on 40 acres including: Drilling 1 borehole Repairing 1 borehole Laying of sewage reticulation lines and manholes Construction of 120m ³ /day sewage treatment and recycling plant Installation and maintenance of 2 1,000L/day centralized reverse osmosis plants Installation and maintenance of 38 decentralized reverse osmosis purified drinking water stations for students and staff	Nairobi	2018 to date	Water sufficiency and sustainability. Recycling of 60% of treated wastewater. Purifying 20,170 L/day of drinking water
47 Individual clients	Supply, installation, and maintenance of 47 point of use (PoU) ROs	Nairobi		Purified water at the PoU thus no buying bottled water hence saving the environment. Purifying 14,232 L/day of drinking water.
Kentegra	Design and installation of wastewater pre-treatment plant for industrial wastewater.	EPZ Kintengela	2023	Meeting the NEMA standard for discharge into public sewer Treating 2,000 L/day of wastewater
Mashiara Park	Hydrological Survey and EIA for upcoming mixed-use development. The project also	Loresho, Nairobi	2022	Riparian zone and wetland preserved.

	included the mapping and preserving of the Kibagare stream riparian and its wetland.			WRA permit and NEMA license obtained
Pactus Enterprises Limited	Supply of 24,000 litres of ready to use Natural Punguza™ to control solids and odour in pit latrines in Kenya Prisons.	Nairobi	2022	
Canadian Foodgrains Bank and Tearfund Canada	Co-chair of 5-person taskforce to design nature-based and landscape level approaches to reduce the impact of climate change on water and livelihoods.	Kenya, Tanzania, Ethiopia, Zimbabwe, Mozambique	2021	
Mashiara Park	Design, supply, installation, and maintenance of a water filtration plant for removal of iron, microbial contaminants, colour and turbidity	Loresho, Nairobi	2021 to date	Purifying 4,000 L/day of water
International Development Research Centre (IDRC)	Supply, installation, and maintenance of 1 point of use reverse osmosis purifier, for drinking water for 30 office staff.	Nairobi	2021 to date	Purified water at point of use- no buying bottled water. Purifying 757 L/day of drinking water
Ngungi Holdings Ltd.	Management of sewage effluent from 60 Apartments using Natural Punguza™ to control solids and odour in septic tank, eliminating the cost of exhauster / honey wagon services.	Lower Kabete, Nairobi	2020 to 2021	Elimination of odour from effluent and improved effluent quality.
Davita Management Ltd.	Management of sewage effluent from 22 free-standing bungalows using Natural Punguza™ to control odour, colour and effluent quality for irrigation. Management of sewage effluent from 41 units-apartment complex.	Karen, Nairobi Kilimani, Nairobi	2020 to date 2022 to March 2025	Elimination of odour from effluent and improved effluent quality.
Kizingo Ecolodge Ltd.	Conceptual design for the recycling of water from kitchens, toilets, showers and sinks for irrigation and re-flushing of toilets.	Lamu Island	2020-2021	-Effective design delivered
Planning Systems Services Ltd.	Riparian study and mapping of Nairobi River at Mazingira Park aka “Hon. John Michuki Memorial Park” near Globe Round-about.	Nairobi	2020-2021	Riparian zone reclaimed and preserved
Runda Park	Design, installation, and maintenance of 6 whole house custom-designed water purification systems based on borehole water quality parameters.	Nairobi	2020-2024	Purifying 2,250 L/day of water
River Gardens Ltd.	Report on Sustainable Rubbish Management for 70 apartments and provision of Natural Punguza™ Odour Control spray for natural and safe odour elimination.	Nairobi	2020	
Integer Ltd.	Advisory services for the restoration of contaminated 60-acre and 10-acre water dams.	Nairobi	2020	
Integer Ltd.	Sewage treatment plant bid specifications for compliance with lake conditions for 5-acre housing development.	Nairobi	2020	
Loresho North Residents Association	Design and construction of 2 biodigesters and 1 whole house water purification system for surface water.	Nairobi	2019/ 2020	Biodigesters installed Purifying 8,000 L/day of wastewater

Integer Ltd.	Conceptual and detailed designs and supervision for restoration and construction of a natural and recreational water storage feature on 5-acre housing development.	Nairobi	2018-2020	Created an aesthetic water feature.
Integer Ltd.	Conceptual Designs of wastewater treatment options for 2500 m ³ per day including an option for natural lagoons and wetland, a mechanized option and hybrid options.	Nairobi	2019-2020	
World Bank and NAMSIP	Conceptual ecological design for the Parklands Storm Water Channel within City Park.	Nairobi	2017	
Rosslyn Academy	Hydrogeological survey, environmental impact assessment and water and wastewater recycling strategy for international school of 950 students.	Nairobi	2017	WRA permit and NEMA license obtained
Gingalili (1968) Ltd.	Environmental and social impact assessment of the 700 acres mixed-use development	Nakuru	2017/18	WRA permit and NEMA license obtained
Gingalili (1968) Ltd.	Hydrogeological survey, water resources assessment and water master plan design for a 700-acre mixed-use commercial development, including creation of 2 no. 25 acres water storage natural lakes connected by a stream, 2 no. sewage treatment and recycling plants, 5 no. boreholes and water purification systems.	Nakuru	2017	Facilitation of rainwater harvesting and storage and water recycling to ensure water sufficiency and sustainability
UNICEF	project director for and lead author of “Natural Punguza™ trials in Kathome Location, Kitui County, Kenya – Reducing odour, insects, and solids in latrines using a sustainable business model.”	Kitui	2017	Odour eliminated from latrines in 4 to 7 days and solids reduced by 1 to 4 feet in 2 months.
Lorok Ltd.	Rehabilitation of contaminated water catchment dam using Natural Punguza™.	Loi Saba	2017	
Revive Consulting Solutions Ltd.	Development of the science, price point, and distribution network of Natural Punguza™, a micronutrients product that eliminates smell and insects and reduces solids in pit latrines, septic tanks, drains, dams, municipal and decentralized water treatment plants, compost, solid waste.	Nairobi for Africa	2016 to date	
Planning Systems Services Ltd.	Lead water quality consultant in core team for the Nairobi Rivers Regeneration Project.	Nairobi	2016 to date	
Canadian Foodgrains Bank	Environmental impact analysis, baseline, policy gaps analysis and mid-term reflection (participatory evaluation) of conservation agriculture program in East Africa.	Ethiopia, Kenya, Tanzania	2015 - 2019	
Karen Waterfront through Planning Systems Services Ltd.	Ecological restoration of Mokoyeti North River and creation of an aesthetic feature at the Karen Waterfront.	Nairobi	2016	Creation of an aesthetic feature Restoration of Mokoyeti North River
Karen Waterfront through Planning	Hydrogeological survey, tendering and drilling supervision for 3 boreholes.	Nairobi	2015	WRA permit and NEMA license obtained

Systems Services Ltd.				
I&M Realty	Hydrology assessment study and WRA permit for Kibagare River Riparian Reserve for I&M Banks' headquarters, Limuru Road, Nairobi.	Nairobi	2017	WRA permit obtained
Acorn Ltd.	Hydrogeological surveys for three properties	Athi River	2014-15	WRA permit and NEMA license obtained
Planning Systems Services Ltd. for Karen Waterfront	Water & sanitation engineering, hydrogeology & solid waste management consultancy services for a 50-acre mixed-use development at Karen Waterfront including a lake feature.	Nairobi	2013-16	
Graceland Management Company Ltd.	Hydrogeological survey for one borehole	Athi River	2016	WRA permit and NEMA license obtained
Endakano Farm Ltd.	Hydrogeological survey, Environmental Impact Assessment and drilling of one borehole	Kimini, Kitale	2017	WRA permit and NEMA license obtained
I&M Bank, Friends of City Park, NAMSIP & Athi Water Works	River water quality studies, conceptual design and supervision of the restoration of 2km of Kibagare River.	Nairobi	2016 -19	2 KMs of Kibagare River restored New sewage built by the government
African Women Agribusiness Network	Green Technology in water and wastewater management in Agribusiness	Nairobi	2015	
Hewton Ltd.	Restoration of lake feature at Qaribu Inn, Kangemi.	Nairobi	2015	
KIWASCO	Designed, implemented, and monitored performance optimization and odour elimination of municipal sewage plant of Kiambu, Kenya	Kiambu	2014	Improved effluent quality
Karen Golf & Country Club	Design and rehabilitation of the constructed wetlands.	Nairobi	2014	Creation of an aesthetic wetland that purifies waste water
Mennonite Central Committee	Tri-national situational assessment of water and agriculture and peace in the Ateker Region, that is, Karamoja ,Uganda, Eastern Equatoria, South Sudan and Turkana, Kenya	East Africa	2012	
WASREB	Prepared guidelines for disaster preparedness and mitigation measures for water utilities in Kenya.	Kenya	2013	
World Vision	Water and Sanitation Evaluation	Somalia	2011	
World Relief	Environmental assessment of village savings and loans projects.	Burundi and Kenya	2011	
World Vision	Environmental, agricultural and socio-economic impacts of copper and cobalt mining in Katanga.	Democratic Republic of Congo	2011	
World Bank (Water and Sanitation Program)	Impacts of innovative financing mechanisms on community water providers in Kenya	Kenya	2011	

Government of Kenya	Member and alternate chair of the technical working group drafting national policies for Environment, Sustainable Land and Natural Resources Management.	Kenya	2009-2011	
World Vision	Children needs assessment for water and agriculture.	Somalia	2009	
World Vision and Partners Worldwide	Initiated, directed and coordinated the first-ever environmental impact assessment performed in Kenya on a 53-km piped rural water scheme. Oversaw the design, community engagement, execution and sustainability of the water scheme.	Kibwezi	2001-2019	