

Water and Gas Well Drilling

EDESSA was retained by Sukomi Landfill Projects (SLP) to provide full technical support on the preparation of method statements and the supervision of water and gas well construction at the Naameh landfill site. The works comprised the installation of two water extraction wells, two groundwater-monitoring wells, and nine gas wells.

The scope of our works involved the following:

- Identifying the suitable drilling methods, drilling equipment, and drilling fluids for site-specific use;
- Identifying the suitable casing and screen material and specification, with their proper installation methods;
- Identifying the suitable gravel pack material, with their proper installation methods;
- Setting the required procedures for conducting verticality and alignment testing;
- Setting the requirements to avoid surface water infiltration and contamination, by the use of protective casings, sealants and grouts, and well heads;
- Setting the proper procedures for well development and completion;
- Setting the proper procedures for test pumping of water wells;
- Setting the proper procedures for water level measurements as well as groundwater and gas sampling;
- Identifying proper cleaning and decontamination procedures; and
- Specifying well abandonment procedures.

