

Septic Tank Design Manual

Decentralized wastewater systems treat, reuse or dispose the effluent in relatively close vicinity to its source of generation. They have the purpose to protect public health and the natural environment by reducing substantially health and environmental hazards.

Onsite sewage facility the wastewater, in areas not served by public sewage infrastructure. A septic tank and drainfield combination is a fairly common type of on-site sewage Onsite sewage facilities (OSSF), also called septic systems, are wastewater systems designed to treat and dispose of effluent on the same property that produces the wastewater, in areas not served by public sewage infrastructure

Fecal sludge management Fecal sludge is defined very broadly as what accumulates in onsite sanitation systems (e. bathing or kitchen water, including. toilet paper and anal cleansing materials), menstrual hygiene products, grey water (i. Together, the collection, transport, treatment and end use of fecal sludge constitute the "value chain" or "service chain" of fecal sludge management. g. It is composed of human excreta, but also anything else that may go into an onsite containment technology, such as flushwater, cleansing materials (e. e. g. pit latrines, septic tanks and container-based solutions) and specifically is not transported through Fecal sludge management (FSM) (or faecal sludge management in British English) is the storage, collection, transport, treatment and safe end use or disposal of fecal sludge. as what accumulates in onsite sanitation systems (e. g. pit latrines, septic tanks and container-based solutions) and specifically is not transported through a sewer

Mound system a septic tank, a dosing chamber, and a mound. They are used in areas where septic systems are prone to failure from extremely permeable or impermeable soils, soil with the shallow cover over porous bedrock, and terrain that features a high water table. Wastes from homes are sent to the septic tank where the solid portion sinks to the bottom of the tank. Effluents A mound system is an engineered drain field for treating wastewater in places with limited access to multi-stage wastewater treatment systems. Mound systems are an alternative to the traditional rural septic system drain field

Decentralized wastewater system Wastewater flow is generated when appropriate water supply is available within the buildings or close to them. Septic tanks are the most common on-site treatment technology used, which can be applied Decentralized wastewater systems

(also referred to as decentralized wastewater treatment systems) convey, treat and dispose or reuse wastewater from small and low-density communities, buildings and dwellings in remote areas, individual public or private properties. They are the most common sanitation technique in under-developed areas ac09ad0b15

Sanitation worker Sanitation workers, particularly those in informal employment who manually empty septic tanks and pit latrines, are often subjected to social stigma for their work. A sanitation worker (or sanitary worker) is a person responsible for cleaning, maintaining, operating, or emptying the equipment or technology at any step of the sanitation chain. More broadly speaking, sanitation workers may also be involved in cleaning streets, parks, public spaces, sewers, stormwater drains, and public toilets. " Some organizations use the term specifically for municipal solid waste collectors, whereas others exclude the workers involved in management of solid waste (rubbish, trash) sector from its definition. This is the definition used in the narrower sense within the WASH sector. Another definition is: "The moment an individual's waste is outsourced to another, it becomes sanitation work ac09ad0b15

A common material to be transported is septage (or more broadly: fecal sludge) which is human excreta mixed with water, e.g. from septic tanks and pit latrines. They also transport sewage sludge, industrial liquids, or slurries from animal waste from livestock facilities with pens. Vacuum trucks can also be used to prepare... ac09ad0b15 French drains are primarily used to prevent ground and surface water from penetrating or damaging building foundations and as an alternative to open ditches or storm sewers for streets and highways. Alternatively, French drains may be used to distribute water, such as a septic drain field at the outlet of a typical septic tank sewage... ac09ad0b15 A septic tank and drainfield combination is a fairly common type of on-site sewage facility in the Western world. OSSFs account for approximately 25% of all domestic wastewater treatment in the US. Onsite sewage facilities may also be based on small-scale aerobic and biofilter units, membrane bioreactors or sequencing batch reactors. These can be thought of as scaled down versions of municipal sewage treatment plants, and are also known as "package plants." ac09ad0b15 Unlike the traditional septic system, the aerobic treatment system produces a high quality secondary effluent, which can be sterilized and used for surface irrigation. This allows much greater flexibility in the placement of the leach field, as well as cutting the required size of the leach field by as much as half. ac09ad0b15 Sanitation workers are essential in maintaining safe sanitation services in homes... ac09ad0b15

Aerobic treatment system (ATS), often called an aerobic septic system, is a small scale sewage treatment system similar to a septic tank system, but which uses an aerobic process. An aerobic treatment system (ATS), often called an aerobic septic system, is a small scale sewage treatment system similar to a septic tank system, but which uses an aerobic process for digestion rather than just the anaerobic process used in septic systems. These systems are commonly found in rural areas where public sewers are not available, and may be used for a single residence or for a small group of homes ac09ad0b15

Autonomous building For example, septic safe toilet paper is recommended. The literature mostly refers to housing, or the autonomous house. the tank, and minimizing non-digestible solids flushed into the tank. However, septic tanks remain An autonomous building is a hypothetical building designed to be operated independently from infrastructural support services such as the electric power grid, gas grid, municipal water systems, sewage treatment systems, storm drains, communication services, and in some cases, public roads ac09ad0b15

French drain When the pipe is draining, it "weeps", or exudes liquids. The perforated pipe is called a weeping tile (also called a drain tile or perimeter tile). French drains are also A French drain (also known by other names including trench drain, blind drain, rubble drain, and rock drain) is a trench filled with gravel or rock, or both, with or without a perforated pipe that redirects surface water and groundwater away from an area. drains may be used to distribute water, such as a septic drain field at the outlet of a typical septic tank sewage treatment system. It was named when drainpipes were made from terracotta tiles ac09ad0b15

Dry well areas, landmarks, and structures Orphan wells – Disused oil or gas wells Septic tank – Method for basic wastewater treatment (on-site) Stormwater – Water A dry well or soak is a structure formed underground that disposes of unwanted water, such as surface runoff water and stormwater. In this process, the water is infiltrated into the ground, further merging with groundwater in the local area. A dry well will typically have a chamber structure, or a deep pit covered with gravel. Dry wells may vary from simple to more advanced structures. The way water flows in a dry well is through gravity ac09ad0b15

Vacuum truck The objective is to enable transport of the liquid material via road to another location. Vacuum trucks transport the collected material to a treatment or disposal site, for example a sewage treatment plant. g. They also transport sewage sludge, industrial liquids A vacuum truck, vacuum tanker, vactor truck, vactor, vac-con truck, vac-con is a tank truck that has a pump and a tank. from septic tanks and pit latrines. The pump is designed to pneumatically suck liquids, sludges, slurries, or the like from a location (often underground) into the tank of the truck. broadly: fecal sludge) which is human excreta mixed with water, e ac09ad0b15

Advocates of autonomous building describe advantages that include reduced environmental impacts, increased security, and lower costs of ownership. Some cited advantages satisfy tenets of green building, not independence per se (see below). Off-grid buildings often rely very little on civil services and are therefore safer and more comfortable during civil disaster or military attacks. For example, off-grid buildings would not lose power or... ac09ad0b15 They are also referred as "decentralized wastewater treatment systems" because the main technical challenge is the adequate choice of a treatment and/or disposal... ac09ad0b15

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