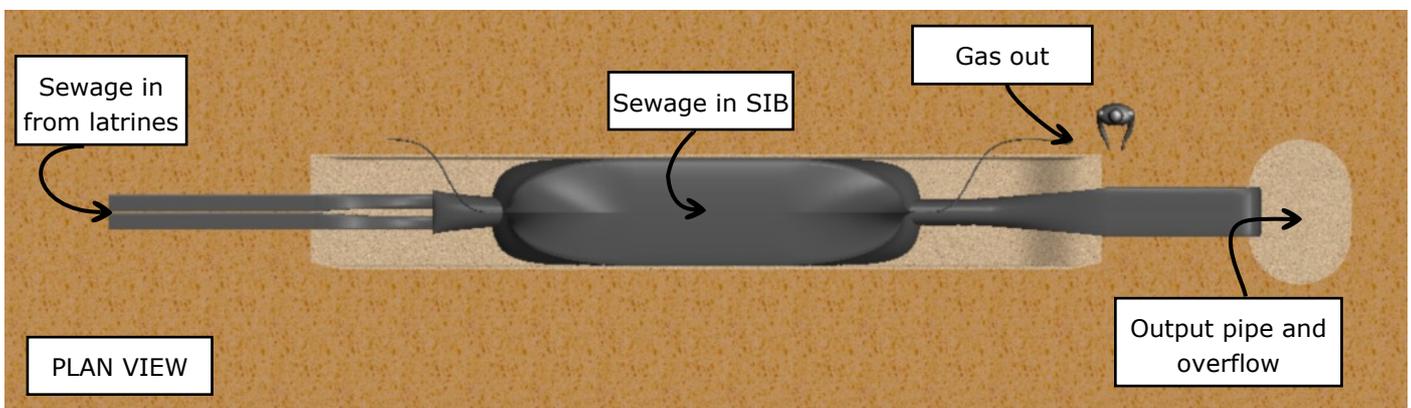


The Sewage Isolation Bag (SIB) system is an innovative alternative to open sewage pits / lagoons. It is a bag and associated pipework which captures raw sewage and isolates it from the environment thereby preventing smells and the spread of diseases.

What is it

Based on robust and strong Butyl Rubber Bag, the SIB System holds the sewage in a watertight and gas tight structure whilst, at the same time, associated fittings keep the contents secure.



Benefits

Once the sewage is isolated in the SIB there are:

- no smells from the sewage in the bag
- no flies or disease vectors attracted to the sewage
- no risk to groundwater from the contents of the SIB
- various options for treatment and disposal

Controlled Storage

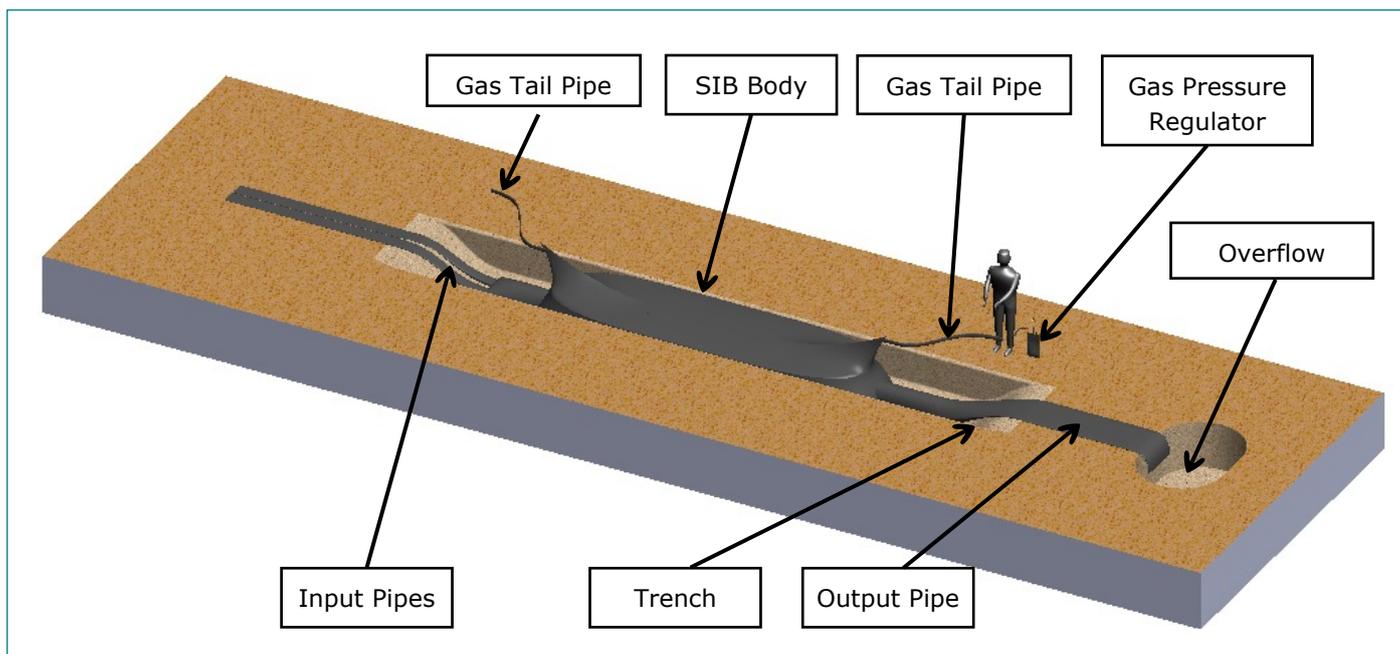
The sewage in the SIB will start to decompose immediately it is contained within the bag. The design of the SIB enables the emissions from the breakdown process to be managed and controlled. The system includes a Pressure Regulator for the gases and overflows for the liquid.

Transport

The SIB-5 system is illustrated here. It holds 5 m³ or 5000 L of sewage and is available in a range of other sizes. The SIB-5 packs down for easy transportation. The entire SIB-5 system fits into a crate of 61 x 61 x 64 cm and it can be easily carried by two people.

Installation

The SIB requires no concrete or other ground works. It is simply installed in a shallow trench which can be dug by hand (0.6m deep, 1.5m wide and 11m long). It has two input tubes of 160mm diameter and 5m length. These input tubes can be connected to latrines pipework or they can be used for manual filling.



Operations

Once the sewage is contained in a SIB system there are a number of operational options:

1. The SIB can be used as a holding tank for the duration of the camp and then emptied when the camp moves away. This can be undertaken either by a sledge mounted submersible pump for disposal in a soakaway or by using a vacuum tanker.
2. The SIB can be used in a manner similar to a septic tank. Filled till it overflows, and the output either passed to a soakaway or piped away.
3. The SIB can also be a tank in which the sewage is treated. This could, for example, be done by using a lime addition.

Decommissioning

The SIB is reusable. On closure of the temporary camp the SIB can be emptied by pumping out and cleaned using the recommended procedure. It can then be rolled up and packed away for transport and used in another temporary camp.

If reuse is not required the SIB can be emptied and disposed of in a suitable facility.

Please contact Craig Ball for further information and quotations:

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SIB-5

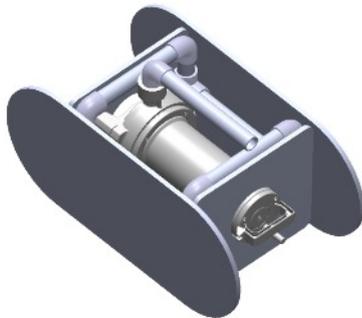
The SIB-5 comes complete with the following items. Other sized SIBs are available.

<i>Sewage Isolation Bag (SIB) 5 body</i>	the anaerobic digester for the containment and isolation of sewage with 2 input pipes, 2 gas output pipes and 1 digestate output pipe	Capacity 5,000 L Length 6 m Diameter 1.33 m Material Butyl rubber
<i>Gas Regulator</i>	to maintain a set pressure in the SIB	Size 20 x 40 cm Material Butyl rubber
<i>Base membrane</i>	to line the trench under the SIB to aid protection from sharp stones	Size 20 x 2 m Material Geotextile
<i>Gas pipe and fittings</i>	to connect the SIB to the Gas Regulator	Length 5 m

Optional extras

Cat No. S-U-001

Sledge mounted submersible pump



to agitate material in the SIB and to empty it when required. The pump is mounted on a bespoke sledge for use in the flexible Butyl rubber SIB body.

Delivery Up to 6.6 m³/h at 10 m head
Head Up to 23 m

Cat No. G-B-005

Gas storage bag



for the collection and storage of the gas

Capacity 3.4 m³
Length 3 m
Width 2 m
Material Butyl rubber

Cat No. F-U-002

Feed collar



to aid manual input of waste into the SIB

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