

Better toilets for construction needs

Status: Filled

Group Members: Saranpreet Singh, Rustem Ismagilov, Artem Grigoryev

Sponsor(s):

Supervisor(s): Amr Marzouk, PhD, P.Eng, Senior Lecturer, Mechatronic Systems Engineering

Project Description

As it was recently announced, the BC government plans to issue a law, making construction sites in B.C. legally required to bring in flushable toilets on job sites (CBC News, 2023). Thus it will result in a high demand for non-flushable portable toilet alternatives. Our team believes that this opportunity can be leveraged by first researching the reasons behind the unreasonably high prices of the current flushable solutions (Portable Restroom Trailers, n.d.), and then either reducing the manufacturing cost of current technologies or developing a new approach to solve the given problem.

Problems of Portable Toilets:

- Smelly due to the lack of ventilation, hot in summer and cold in winter.
- Most are un-flushable, which contributes to the stink and uncleanliness.
- The open pit contributes to bacterial exposure which may lead to certain diseases.
-

<https://vancouversun.com/news/local-news/vancouvers-645000-public-toilet-raises-eyebrows>

Portable Restroom Trailers. (n.d.). Portable Restroom Trailers | Toilet Rentals & For Sale | ADA. Retrieved November 14, 2023, from <https://www.portablerestroomtrailers.com>