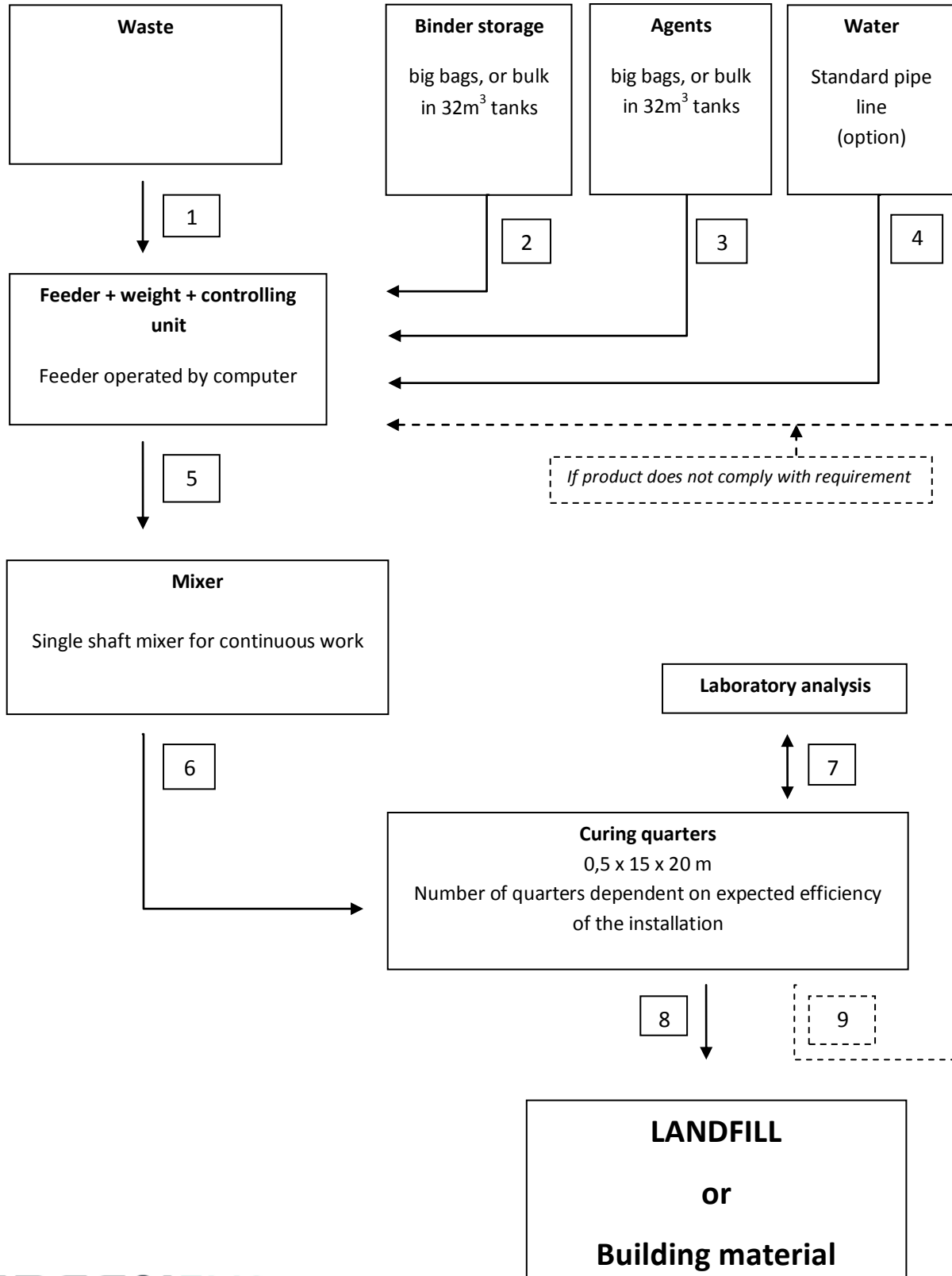


Omnia subiecta sunt naturae.

Enviromix® process flow sheet



Omnia subiecta sunt naturae.

Streams description:

1. Initial laboratory control of the waste. Excavation of waste. Waste is transported using ADR means of transport to the place of temporary storage on the treatment site. *Machinery used in this stream: excavator, trucks. Number of machinery dependent on required efficiency of treatment plant.*

Preparation of waste for stabilization process. Laboratory examination, water content setting. Water content of waste should be below 70%. Transportation of the waste via belt conveyer to the feeding unit controlled by controlling unit. *Machinery used in this stream: frontloader, belt conveyer, controlling unit*

2. Binder supply to the feeding machine via belt or screw conveyer. Process controlled by computer. Addition of binder may vary depending on waste parameters. Usually addition of binder vary between 10 and 40% of waste mass. *Machinery used in this stream: frontloader, belt or screw conveyer, controlling unit, transported mass sensor*
3. Agent supply to the feeding machine via belt or screw conveyer. Process controlled by computer. Addition of binder may vary depending on waste parameters. Usually addition of binder vary between 1 and 10 % of binder mass. *Machinery used in this stream: frontloader, belt or screw conveyer, controlling unit, transported mass sensor*
4. Water supply to the feeding machine from standard pile line. This stream is optional, hence high water content in the waste will provide enough water for solidification and fixation process that occur during treatment process. *Equipment used in this stream: water elastic pipes, ball valve, controlling unit, flow sensor.*
5. Mixture of waste, binder, setting agent and water is transported into the mixer. After 180 seconds of mixing stabilized waste leaves mixer. Mixer is powered by electric engine (50-75 kW). Power supply from general electric network. *Equipment used in this stream: mixer*
6. Stabilized waste transportation to the curing quarter. Quarters must be prepared on concrete or asphalt surface. Quarter is insulated from environment preventing any leaching to reach groundwater or migrate to the ground. Waste is transported from the mixer to the quarter by frontloader or by belt conveyer. Each quarter is constructed of two parallel concrete walls 50 cm tall. Length of walls – 20 m, distance between walls – 15 m. *Machinery used in this stream: frontloader*



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7. Curing period is 14 days. After that laboratory analysis are done in order to confirm stabilized waste compliance with requirements. Samples are taken every 1000 tons of dry waste.
Equipment used in this stream: laboratory
8. Stabilized waste is loaded on vehicles and transported to landfill or to recipient/buyer of the building material. *Machinery used in this stream: excavator, trucks. Number of machinery dependent on required efficiency of treatment plant.*
9. In case waste does not comply with requirements waste is directed to the mixer (stream no. 5) and treated once again. *Machinery used in this stream: frontloader*