

Deliverable #16:

16. *Update Operations Manual to address floor drain inspections and maintenance.*

The Fiberight facility has been designed with floor drain trenches spaced throughout the building to capture any runoff from the waste and equipment wash water for reuse within the process. Each trench is 1 foot wide with an 8 inch minimum depth. The trenches are of varying lengths and spaced strategically between the waste handling operations and process tanks to optimize the use of space within the building.

The waste unloading area is designed with 2 perpendicular trenches, near the entrance to the building, to capture runoff from the haul vehicles and waste loads as they are emptied to be processed. These trenches share a common pit with a nominal design capacity of 500 gallons which will collect flows that will then be routed to the Combined Drainage Tank and then on to the pulpers. Two additional trenches have been placed in the waste pulping area. Each of these trenches has its own pit that is also routed back to the pulper.

Ten additional trenches are spaced throughout the rest of the facility, each with its own trench that will be routed either to the pulper or the stock tank. The building floor is sloped throughout its entirety to drain to one of these 14 drains.

Each of the trenches will be covered with a trench grate that is inset so that it lays flush with the concrete surface. The grate will have 1¼-1½” inch openings to prevent larger wastes from entering the trench. Each drain will have a minimum slope of ¼ inch per foot, and the pits will have a nominal design capacity of 250–500 gallons depending on exact location. Each pit will be equipped with a sump pump actuated by a local level control device.

Floor drain trenches within the waste handling areas will be inspected periodically to ensure that waste accumulation above the grate does not block access to the trench. If at any time, waste has blocked flow to the drains, it will be removed. If waste accumulation becomes prevalent, Fiberight may investigate additional waste handling practices to help minimize the need for repeated cleanings. One of the options that could be considered includes the strategic use of moveable rubber curbing or screening.

All trenches within the building will be inspected weekly to ensure that larger waste is not obstructing flows and that smaller waste is not accumulating within the trench and slowing the flow of water. If at any time, water has become stagnant within the trench, the trench will be washed down to prevent odors and insect growth.