

Inspection and Maintenance Of Drainage System

Structure: Storm Water Collection, Catchbasins and Manholes

Twice a year inspect catch basin and area drain grates and remove blockages. Clean sumps of sediment and debris when the depths of deposits are within 2 inches of the lowest pipe in the basin.

Once per year remove manhole and catchbasin frame and grate and inspect structure and brick work for deficiencies, repair as necessary.

Maintenance procedures Cultec Stormfilter 330

General

The Cultec Stormfilter 330 should be inspected for the first time immediately after the first rainfall of the stormwater system operation. Following the first inspection, it is recommended to be inspected quarterly or when an extreme storm occurs. Always follow OSHA guidelines during maintenance procedures on the Stormfilter 330.

Maintenance Guidelines

1. The owner shall keep a maintenance log which shall include details of any events which would have an effect on the system's operational capacity.
2. The operation and maintenance procedure shall be reviewed periodically and changed to meet site conditions.
3. Maintenance of the stormwater management system shall be performed by qualified workers and shall follow applicable occupational health and safety requirements.
4. Debris removed from the stormwater management system shall be disposed of in accordance with applicable laws and regulations.

Inspection

1. Barricade off the service area according to local regulatory safety procedures. two persons should be available for inspection and maintenance.
2. Allow the stormfilter to be properly vented by opening the at-grade grate and the stormfilter cover. a fan is recommended to improve ventilation. it may not be necessary to enter the stormfilter chamber, if it is closer to grade.
3. Inspect the chamber for silt and sediment. if it is found that sediment has accumulated, measure the sediment depth. This can be done with a stadia rod. check each of the filter bays and record the depth of silt in each. we recommend cleanout when the depth of sediment in the third bay (before the last filter) exceeds 3 inches.

Maintenance

1. Using a vacuum, remove water and dirt from the stormfilter chamber.
2. Pressure wash the filters in place and repeat dirt removal.
3. If necessary, remove and replace the particulate filters by separating the top velcro or zipper on the particulate filter bag and releasing the top frame lock by loosening the nut and bolt at the top center of each filter frame. after releasing the bolt, pull up on the center frame release arm and the frame and filter bag will collapse. remove it from the stormfilter housing ribs. the filter can then be removed from the frame and washed or replaced.
4. It may be necessary to vacuum the stormfilter again in order to properly reseal the clean filters into the ribs that the frame is set into. if the frames do not reinstall properly, it may be necessary to adjust the width of the frame by moving the locking pins at the top or bottom center of the stainless steel arms to reset them.

Inspection and Maintenance R 902HD

CULTEC recommends inspection of the Separator Row to be performed every six months for the first year of service. Future inspection frequency can be adjusted based upon previous inspection observations. However annual inspections are recommended. Inspection of the Separator Row can be achieved via an inspection port riser installed during construction. This inspection port riser will connect the top of the Separator Row chambers to finished grade with a removable lid. Alternatively the Separator Row may be inspected via the manhole(s) located at the end(s) of the Separator Row. However this method of inspection requires confined space entry. If entry into the manhole is required, all local and OSHA rules for confined space entries must be strictly followed.

To inspect:

- Remove the inspection port lid from the floor box frame.
- Remove the riser pipe cap.
- With a flashlight and stadia rod, measure the depth of sediment.
- Record results in a maintenance log.
- When depth of sediment exceeds 3" (76 mm), use the JetVac procedure described below.

The JetVac process utilizes a high pressure water nozzle controlled from the surface. The high pressure nozzle is introduced down the Separator Row via the access manhole(s). The high pressure water cleans all sediment and debris from the Separator Row as the nozzle is retrieved. Captured pollutants are flushed into the sumped access manhole for vacuuming. This process is repeated until the Separator Row is completely free of sediment and debris. A small diameter culvert cleaning nozzle is recommended for this procedure.