



**Geotextile Sand Filter**

# Pan Sampling Port Installation Manual



**eljen**  
CORPORATION

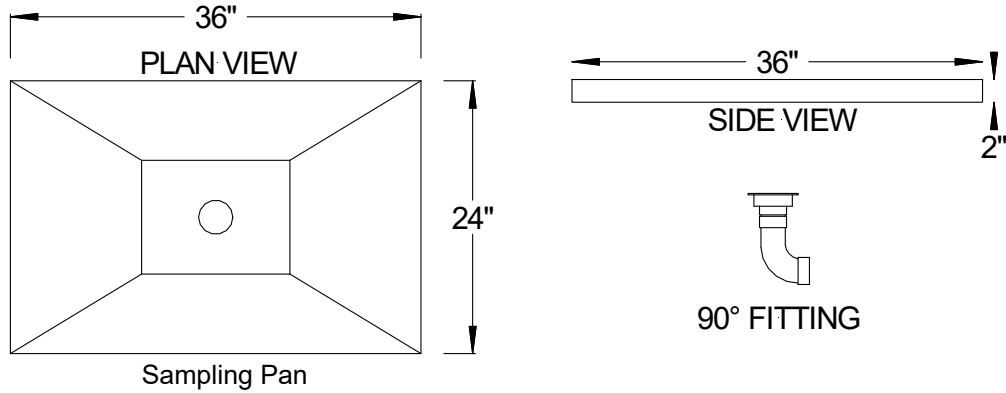
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# 1.0 Sampling Port Parts

**FIGURE 1: PARTS AND DEVICES**

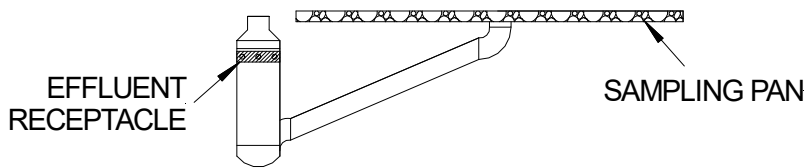
Field Sampling Parts to be installed with system:



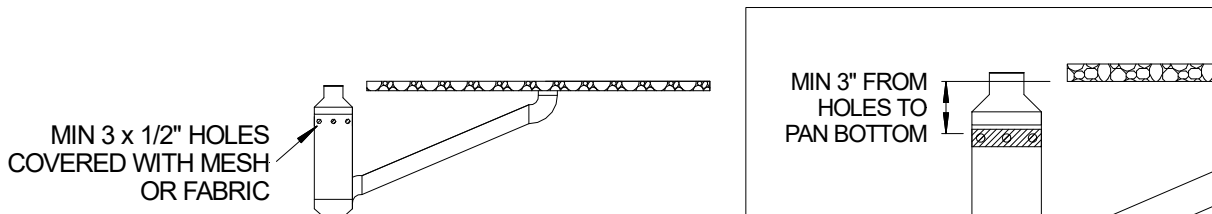
**Effluent Receptacle:**

Multiple configurations are acceptable. Please contact Eljen Corporation with questions.

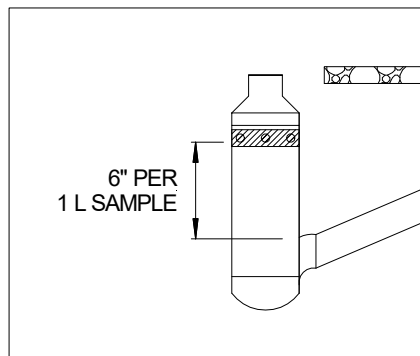
1. The completed assembly will have the effluent receptacle below the sampling pan.



2. A minimum of 3 holes, from 1/2 inch to 1 inch, are located near the top of the effluent receptacle. The holes must be located a minimum of 3" below sampling pan.



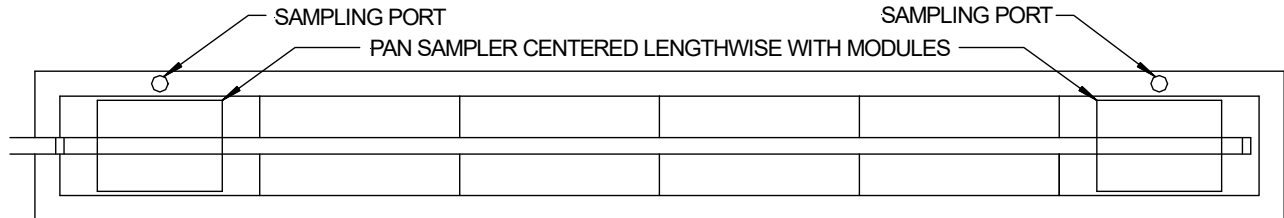
3. For every liter of sample required, ensure there is six inches of 4" pipe between the holes and the incoming effluent from the pan.



## 2.0 Sampling Port Placement

1. Determine the collection pipe and sampling pan placement in the system. Eljen recommends one sampler in a low-pressure distribution system or a minimum of two samplers used in gravity or pump to gravity distribution systems. In a pressure distribution system, the sampler may be placed under any unit. In gravity systems, one sampler is placed under the first module and a second one is located near the end of the same row.
2. Carefully lay out the system area and boundaries.
3. Prepare the site. Excavate a trench to the design elevation for the system. *Note: this includes the Specified Sand.*

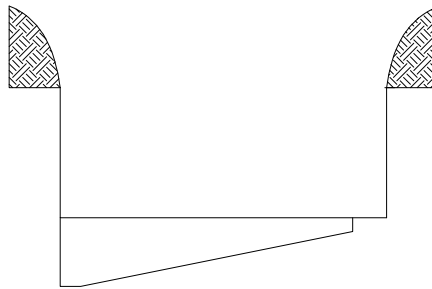
**FIGURE 2: OBSERVATION AND SAMPLING PORT PREPARATION PLAN VIEW**



## 3.0 Sampling Port Installation

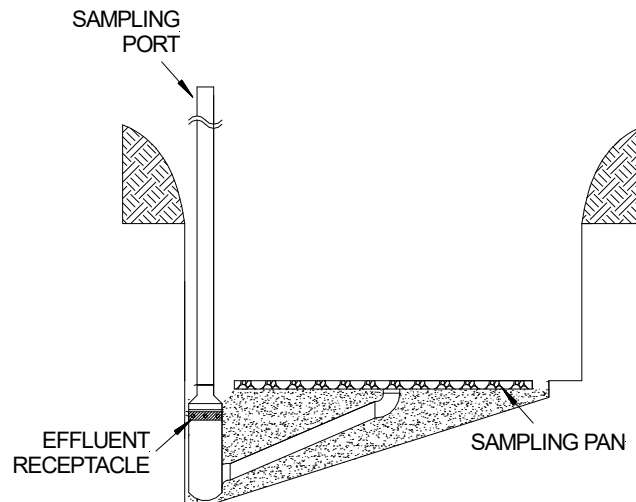
1. At the location where the sampling devices will be installed, create the form to receive the devices in order for the sampling pan to be under the Eljen GSF module and specified sand. Cut out the area for the sampling port.

**FIGURE 3: PLACE BASE SAND**



2. Place the sampling pans level in the excavation. The pan should be set perfectly level and centered underneath where the Eljen GSF modules will be placed. The sampling port and receptacle are placed beside the module. Use Specified sand to keep the apparatus in place.

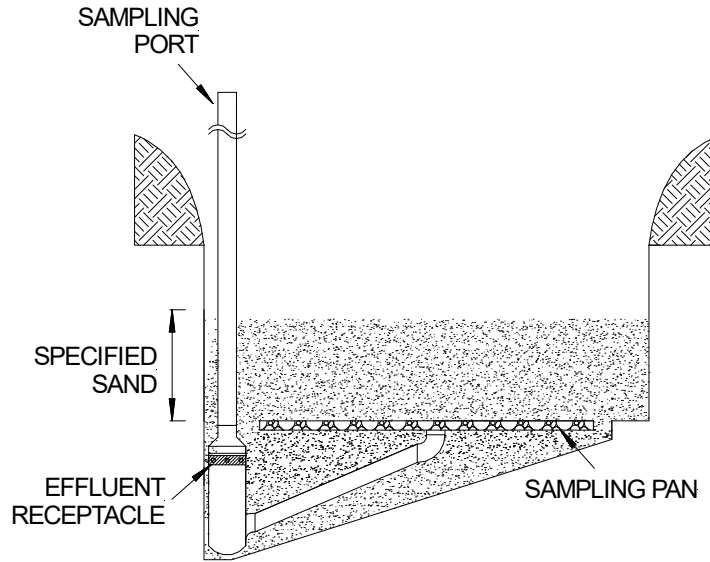
**FIGURE 4: PLACE SAMPLERS ON SAND**



### 3.0 Sampling Port Installation

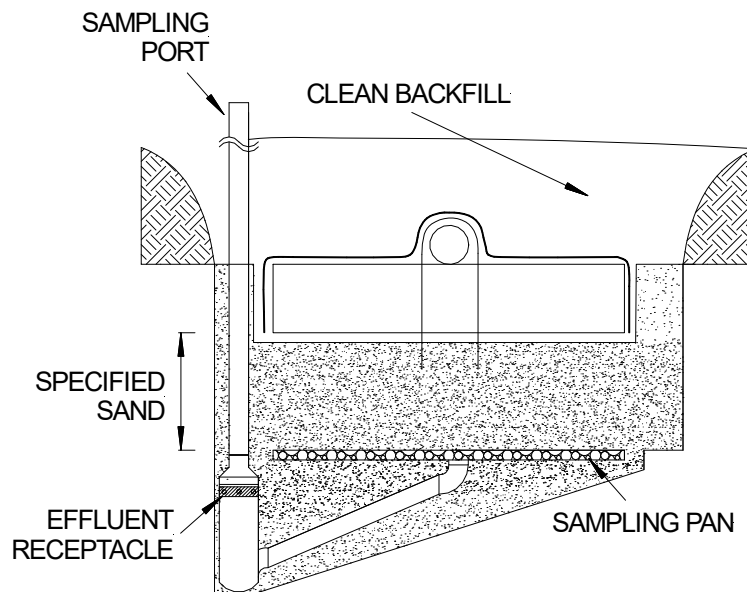
3. Fill Pan with pea gravel or if fitted with fabric, ASTM C-33 sand is acceptable.
4. Place the specified sand to required depth.

**FIGURE 5: COMPLETE PLACING SPECIFIED SAND**



5. Stabilize the Specified Sand height below the GSF module according to your state or local Design & Installation Manual. A hand tamper or vibratory compactor is sufficient to stabilize the Specified Sand below the GSF modules. Check the zero grade of the top of the Specified Sand using a flat piece of lumber and a carpenter's level and/or a laser before placing the modules.
6. After the GSF modules have been installed, carefully place backfill over the modules, followed by loam to complete a total minimum depth of 12 inches as measured from the top of the module. Backfill material shall be a well graded sandy fill; clean, porous, and devoid of rocks.

**FIGURE 6: COMPLETE BACKFILL**



### **3.0 Sampling Port Installation**

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7. Cap or place irrigation box over top of pipe. Mark so that service provider can find for sampling.
8. Divert surface runoff and finish grade to prevent surface ponding. Seed, loam, and protect from erosion.

### **4.0 Sampling Port Sampling**

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1. Sampling can be done in one day.
2. Ensure your sampling beaker or container is clean and ready to receive sample.
3. Uncap or open irrigation box.
4. Retrieve sample with clean suction device. We recommend using the suction device in a PVC tube that has holes in it, typically located a few inches from the bottom of the capped pipe or tube, so that any debris that has settled at the bottom of the sampler is not disturbed.
5. Cap or close irrigation box.
6. Return sample to lab for testing in a cool storage container.

## **COMPANY HISTORY**

Established in 1970, Eljen Corporation created the world's first prefabricated drainage system for foundation drainage and erosion control applications. In the mid-1980s, we introduced our Geotextile Sand Filter products for the passive advanced treatment of onsite wastewater in both residential and commercial applications. Today, Eljen is a global leader in providing innovative products and solutions for protecting our environment and public health.

## **COMPANY PHILOSOPHY**

Eljen Corporation is committed to advancing the onsite industry through continuous development of innovative new products, delivering high quality products and services to our customers at the best price, and building lasting partnerships with our employees, suppliers, and customers.



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