

Permit Number AR0034037

Points 53

Class III

Package plants and SBRs will be classified on the basis of each individual component.

Reg.3.502 Classification of Municipal Wastewater Treatment Plants

- 1) Class I - Individual, single-dwelling houses that treat domestic sewage only.
- 2) Class I - 01 - 25 rating points.
- 3) Class II - 26 - 49 rating points.
- 4) Class III - 50 - 74 rating points.
- 5) Class IV - 75 or greater rating points.

(B) Classification Factor Rating Points

Equivalent population served (1 point per each 2000 population)

~ 1500 people

1

Equivalent Population shall be calculated as:

Flow in MGD X Influent Biochemical Oxygen Demand (BOD) X 8.34
divided by 0.17. (The maximum rating for this factor shall be 40.)

Collection systems:

- Lift station, one or more..... 5
- Vacuum collection system 10

✓

5

Preliminary Treatment:

- Screens / Bars..... 2
- Comminutor..... 3
- Grit removal 5

✓

2

Clarification:

- Primary settling and sludge removal..... 4
- Secondary settling and sludge removal..... 6

✓

6

Lagoon/Pond/Natural Systems:

- Stabilization/Holding pond(s)..... 10
- Aerated lagoon(s)/Natural systems 12
- Fixed Film Systems (RBCs, trickling filters): 12

Suspended Growth Systems:

- Activated sludge: Mechanical aeration / Diffused air..... 20
- Pure oxygen 25
- Neutralization..... 5

✓

20

Tertiary Treatment:

- Chemical treatment 20
- Filtration..... 15
- Nutrient removal 20

Disinfection:

- Chlorine..... 5
- Ozone 7
- Ultraviolet Light (UVL)..... 5
- De-chlorination 5

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5

Sludge Treatment:

- Thickening or dewatering 6
- Aerobic digester..... 6
- Anaerobic digester(s) 20
- Drying bed 4
- Chemical conditioning..... 10
- Vacuum / coil filter(s) / centrifuge / composting..... 8
- Sludge heating..... 5
- DAF unit(s) 10
- Sludge lagoon(s) 6

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4

Sludge disposal:

- Land application..... 4
- Land application of effluent with no direct discharge 6

53