



Aerobic Digester Evaluation Form

Ph: 800/961-1220 Fax: 480/425-3061



- 1. Facility Name: _____
- 2. Phone: _____ Fax: _____
- 3. Email Address: _____
- 4. Address: _____
- 5. Supervisor: _____
- 6. Operator(s): _____

- 7) Digester Configuration: _____

8). Number of Digester(s) _____ Volume(s) _____

9). Detention Time: _____ Temperature Range: _____

10). Source and Type of Sludge:

(How is primary sludge & waste activated sludge handled? Is it blended or separated when wasted to digester?)

SOLIDS

Raw Digester Feed:

11) Average Volume of Solids Wasted to the Digester in 24 hours _____ ADF to Plant _____ mgd.

12) Average % solids entering the digester(s) _____

11) pH _____ Alkalinity _____

12) Description of wasting frequency to the digester(s) _____

13) Is there any alkalinity adjustment to the influent digester solids? _____ 14) Chemicals fed to the digester? _____

(Lime, Ferric Chloride, Other)

Digester

Is alkalinity routinely measured? _____ Concentrations? _____
Are nitrates, ammonia, or nitrites measured? _____. Concentrations? _____
Are these concentrations measured when air is on or when it is off? _____

What is (are) the Dissolved Oxygen concentration(s)? _____

Supernatant:

- 16) Solids _____ %
- 17) pH _____
- 18) Alkalinity _____
- 19) Volume _____
- 20) Is Supernatant Decant Measured? _____ Volume: _____
- 21) Ammonia Concentration: _____ Nitrate: _____

Digested Sludge Withdrawn:

- 25) pH _____ Alkalinity _____ mg/l
- 26) % Solids _____ % Volatile Solids _____ %
- 27) Volume Removed _____ GPD
- 28) Digester Volatile and Total Solids Removal Efficiency _____

Digester Operation:

- 29). Loading _____
- 32) How is Sludge Volume Wasted in and out of the Digester Measured? _____

- 33) Is air turned off to decant? _____ Is air turned off to recover alkalinity? _____
Is air turned off to destroy nitrates? _____
If air is turned off, for how long? _____

- 34) At what point is air turned back on? _____
- 35) After the digesters, how is sludge handled?

QUESTIONS:

- 1. Are Graphic Representations of Digester Loading and Performance Over Time Available?
- 2. Are Costs Associated With Sludge Disposal and Handling Available?
- 3. Could the Operator Notice a 15 to 20% Reduction in Total Solids?