Anaerobic Digester Evaluation

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

1. Facility Name_____ Phone_____
2. Address _____ Fax_____
3. Supervisor _____ Superintendent/Operator_____
4. Digester Type

   Aerobic_____ Anaerobic_____

   High Rate_____ Standard _____ Complete Mix_____ Other_____

   Configuration: Primary _____Secondary _____

   Other: _____
5. Detention Time _____
6. Temperature Range _____

   Quantity and Source and Type of Sludge _____

   _____

   (Raw Sludge & Thickened Waste Activated Sludge WAS)

SOLIDS

Raw

7. Total Solid_____% Volatile Solids _____%
8. pH _____ Volume gpd _____

Supernatant

9. Total Solids _____% Volatile Solids _____%
10. COD _____

Digested Sludge

11. pH _____ Alkalinity _____ mg/1 Volatile Acids _____mg/1

    Volatile Acids/ Alkalinity measured _____ x week.

12. Loading _____ (include units)/(day, week, month)

    Solids _____Hydraulic _____

Total Solids _____% Volatile Solids _____%

13. Gas Production % Methane _____% CO2 _____% Other _____
14. Gas Production _____ Cubic ft/Lb volatile matter/day. _____
15. Total Gas Production _____
16. TGP measured _____x week
17. % Solids In _____% Solids Out _____ Volume gpd _____
18. Solids content reduced by _____% (% Reduction of Volatile Matter)
19. Dry Solids Sludge Applied _____ Dry Solids Sludge Removed_____
20. How is sludge volume measured? _____ Pump cycles/Flow Measurement
21. Residual BOD _____ COD _____ Ammonia _____
22. Is Scum Blanket Measured? _____ Recorded? _____ Average Thickness _____

Notes:

Questions:

Are graphic representation of digester loading and performance over time available?

Are costs associated with sludge disposal and handling available?

If 30% or more volatile matter was destroyed in the digester or if digester efficiency were improved by 30% what would that do for you?

With current process control could you discern a 15% improvement in digester performance?