|  |  |
| --- | --- |
| MEMO | Information for Preliminary MicroPoP Cost/Benefit Analysis |
| TO |  |
| FROM | Dr. Rob Stephenson, Erik Rehtlane, Eagleridge Innovations Corporation [dr.rob.stephenson@gmail.com](mailto:dr.rob.stephenson@gmail.com) [erikr@eagleridgeinnovation.com](mailto:erikr@eagleridgeinnovation.com) |
| DATE |  |

The information below allows Eagleridge to prepare a MicroPoP cost/benefit analysis for your facility.

Technical

1. Process flow diagram for your facility
2. Effluent discharge permit requirements for BOD, TSS, TDS, nitrogen, phosphorus, and other?
3. Average sludge production? \_\_\_\_\_\_ dry tonnes per year
4. What portion of sludge is primary sludge? \_\_\_\_\_\_ %
5. What portion of sludge is waste activated sludge (WAS)? \_\_\_\_\_\_ %
6. Typical solids concentration of WAS? \_\_\_\_\_\_ % solids
7. WAS thickening equipment for MIcroPoP available at facility? – MicroPoP feed at 6% - 10% solids
8. Electric power supply voltage? \_\_\_\_\_ VAC
9. If the facility has anaerobic digestion:
   1. Volume of biogas production? \_\_\_\_\_\_ m3 /day or per year
   2. Methane content of biogas? \_\_\_\_\_\_ %
   3. Value of the biogas produced?

Costs

1. Average unit cost of electricity / kWh?
2. Annual quantity and cost of polymer used for dewatering sludge?
3. Sludge disposal cost / wet tonne?
4. Value of heat?
5. Is there an economic value of greenhouse gas savings \_\_\_\_\_\_/ tonne CO2 equivalent?

Other points to mention?