

Form 7-2 Operational Checklist: Aerobic treatment unit (ATU)

Service provided on: Date: _____ Time: _____ Reference #: _____

Service provided by: Company: _____ Employee: _____

Date of last service: _____ By: You Other: _____

Date of last inspection: _____

NOTES

1. Type of ATU:

- Suspended-growth Attached-growth Sequencing batch reactor
 Combination attached/suspended-growth
 Rotating biological contactor Other: _____

a. Manufacturer: _____ Model #: _____

2. Conditions at the ATU

a. Evaluate presence of odor within 10 ft of perimeter of system:

- None Mild Strong Chemical Sour

b. Source of odor, if present: _____

c. Was foam/residue observed outside the unit. Yes ___ No ___

3. ATU access

a. Located at grade. Yes ___ No ___

b. If 'No', how deep is tank buried. _____

c. Risers on tank. Yes ___ No ___

d. Evidence of infiltration in the risers. Yes ___ No ___

e. Lids securely fastened. Yes ___ No ___

f. Lids in operable condition. Yes ___ No ___

4. Venting/Air supply

a. Air supply method:

- Aspirator Aerator Compressor Blower Free air (go to 4.g)

b. Operation: Continuous Timed (On: _____ min, Off: _____ min)

c. Air supply unit operating properly. Yes ___ No ___

d. Pressure at air supply unit: _____ psi

e. Air flow at air supply unit: _____ cfm

f. Air filter/screen: Cleaned Replaced

g. Venting appears operable. Yes ___ No ___

5. Aeration chamber

a. Mixing in aeration chamber. Yes ___ No ___

b. DO in aeration chamber: _____ mg/L

c. pH in aeration chamber: _____

d. Temperature in aeration chamber: _____

e. Settability test:
Settled ___%, Floating ___% in _____ min

f. Biomass color in the aeration chamber:

- Brown Black

g. Sludge pumping recommended. Yes ___ No ___

6. Additional tasks for attached-growth: media evaluation

a. Plugging. Yes ___ No ___

b. Floating. Yes ___ No ___

c. Media washed. Yes ___ No ___

If washed, indicate method used: Air Water

d. Media replaced. Yes ___ No ___

7. Clarification chamber

a. Scum layer. Yes ___ No ___

If yes, thickness: _____ in

b. Clear zone depth below outlet: _____ in

c. Effluent screen/tertiary filter cleaned. N.A. ___ Yes ___ No ___

2. Acceptable
 Unacceptable

3. Acceptable
 Unacceptable

4. Acceptable
 Unacceptable

5. Acceptable
 Unacceptable

6. Acceptable
 Unacceptable

7. Acceptable
 Unacceptable

Reference #: _____

- d. DO in clarifier: _____ mg/L
- e. pH in clarifier: _____
- f. Temperature in clarifier: _____
- g. Effluent odor after passing through unit:
 None Mild Strong
- h. Effluent color after passing through unit:
 Clear Brown Black
- i. Effluent turbidity: _____ NTU
- 8. Sludge return operating: Passive Active
 - a. If active, pump was checked manually. N.A. ___ Yes ___ No ___
 - b. If active, pump operating properly. N.A. ___ Yes ___ No ___
- 9. Control Panel: N.A. _____
 - a. Controls operating properly. Yes ___ No ___
 - b. Is enclosure watertight. Yes ___ No ___
 - c. Alarm test switch operating properly. Yes ___ No ___
 - d. At time of inspection, control switch was set to: N.A. _____
 "Hand/Manual" ___
 "Auto" _____
 - e. If auto, setting: Time On: _____ (min) Time Off: _____ (min)
- 10. Alarm(s): N.A. _____
 - a. Types: Air pressure High water Remote
 - b. Alarms operating. Yes ___ No ___
 - c. Alarm readings:

- 8. Acceptable
 Unacceptable
 - 9. Acceptable
 Unacceptable
 - 10. Acceptable
 Unacceptable

	Reading (present)	Reading (last)	Difference	N.A.
i. ETM			hours	
ii. Alarm Counter			Events (NC)	

- Elapsed time in alarm status: _____ (PTR) - _____ (LTR) = _____ Time (hours)
- Number of alarm events: _____ (PACR) - _____ (LACR) = _____ Events (number)
- d. Battery backup charged. N.A. ___ Yes ___ No ___
 - e. Telemetry operable. N.A. ___ Yes ___ No ___
11. Manufacturer's required maintenance performed. Yes ___ No ___
(If 'Yes', attach Manufacturers Inspection form to this report, if supplied)
12. Lab samples collected for monitoring. Yes ___ No ___
 Types of analysis: _____

ETM: elapsed time meter
 LACR: last alarm counter reading
 LTR: last time reading
 NC: number of cycles
 PACR: present alarm counter reading
 PTR: present time reading