

**UNIT PROCESS: ACTIVATED SLUDGE AERATION**

1. Number of units: \_\_\_\_\_ In operation: \_\_\_\_\_
2. Mode of operation: \_\_\_\_\_
3. Proper flow distribution between units:             Yes             No\*             NA
4. Foam control operational:                             Yes             No\*             NA
5. Scum control operational:                            Yes             No\*             NA
6. Evidence of following problems:
- a. dead spots     Yes\*             No
- b. excessive foam                                      Yes\*             No
- c. poor aeration                                       Yes\*             No
- d. excessive aeration                                Yes\*             No
- e. excessive scum                                      Yes\*             No
- f. aeration equipment malfunction             Yes\*             No
- g. other (identify in comments)                 Yes\*             No
7. Mixed liquor characteristics (as available):
- |       |      |       |                     |     |      |                    |      |        |
|-------|------|-------|---------------------|-----|------|--------------------|------|--------|
| pH:   | s.u. | MLSS: | mg/l                | DO: | mg/l | SDI:               | SVI: | Color: |
| Odor: |      |       | Settleability: ml/L |     |      | Others (identify): |      |        |
8. Return/waste sludge:
- A. Return Rate: \_\_\_\_\_                      b. Waste Rate: \_\_\_\_\_                      c. Frequency of Wasting: \_\_\_\_\_
9. Aeration system control:                            Time Clock     Manual     Continuous     Other (explain)
10. Effluent control devices working properly (oxidation ditches):     Yes             No\*             NA
11. General condition:                                 Good             Fair             Poor

Comments: