AQUAPOINT
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ANOXIC FILTER

Date:	Installation:	Tested:
Client:	Service:	Commissioned:
Inspector:	Scheduled Maint:	Other:

CONTROL PANEL

1) PUMPS AND CONTROL PANEL

NOTE: The two mixing pumps are controlled with one timer.

a) Record mixing pump timer setting from control panel. min on / min off

b) Record sludge recycle pump timer setting from control panel. min on / min off

In the control panel, set the timers to a test cycle (i.e. 0.5 min on 0.5 min off:)

a) Measure amperage of mixing pump 1: amps

b) Measure amperage of mixing pump 2: amps

c) Measure amperage of sludge recycle pump: amps

Are the mixing pumps operating simultaneously? Y N

Are the timers operating properly? Y N

Visually inspect relays for wear and record problems below.

*If spare components are needed contact AQUAPOINT

If an ammeter is not available, set the timers to a test cycle as above and physically check the pumps operation as follows:

Pumps: check that the pump(s) are operating and the designated rest cycle is occurring.

Mixing 1: OK? Y / N

Mixing 2: OK? Y / N

Sludge: OK? Y / N

*If pumps or control components are not operating properly record below and consult Aquapoint.

RESET TIMERS TO ORIGINAL SETTINGS: Note any changes here: min on / min off

*Do not change timers without consulting AQUAPOINT

2) PLUMBING

a) Are the manifolds in the filter tank leaking? Y N

If yes, then make the necessary repairs

3) SLUDGE MANAGEMENT

a) Measure sludge in anoxic tanks quarterly:

b) Sludge depth in anoxic tank: scum depth: sludge depth:

*** Anoxic tank must be pumped when sludge level reaches approximately 10 inches or greater.**

* Alternatively, sludge pump timer setting may be increased slightly.

4) MEDIA BLOCK BACKWASHING (Perform at least once per month)

a) Under the aluminum hatch, adjust one ball valve on each manifold assembly to direct pump flow through one media block. (This is the backwash cycle).

b) Maintain backwash process for approximately 5 minutes, or until the excess nitrogen gas bubbles and bacteria are removed from the media.

c) Repeat for the remaining ball valves that are connected to the manifold.

d) Return ball valves to normal operating condition (all valves opened)

5) FLOW RATE MEASUREMENT		
Note: Flow rate may be determined based on one of the following methods:		
	Total flow (gallons)	Ave. daily flow (gpd)
a) Open channel meter.		
b) Closed conduit pressure flow meter.		

6) CHEMICAL FEED CALIBRATION (Based on flow and nitrate-N+nitrite-N concentration).

Note: Chemical dosing is based upon one of the following methods: (1) a 24 hour clock, **(2) pumps in an equalization chamber** or (3) an open channel flow meter.

a) Record the external carbon chemical level and maintain history: Inches above bottom:

b) Record the chemical dosing rate in (mls/minute): Dosing rate:

b) If there are discrepencies or test results are not satisfactory, recalibrate pump and/or adjust the dosing rate based on the influent (nitrate + nitrite) concentration and the flow rate.

*** Measurement of the influent and effluent nitrate-N and nitrite-N will be necessary.**

*** Field test kits for nitrate-N are acceptable for process control.**

*** See Technical Manual for assistance with chemical dosing calculations.**

7) FINAL CHECK

a) Main power "on" and toggle for all pumps set to "normal" position	Y	/	N
b) Alarm toggle set to the "on" position	Y	/	N
c) Lock control panel	Y	/	N
d) Set all ball valves to the open position in the anoxic filter	Y	/	N
e) Lock all applicable doors, gates and tank access hatches	Y	/	N

8) REPORT SUMMARY

SIGNATURE:

Revision Date: 1_2005