AQUAPOINT
39 TARKILN PLACE
NEW BEDFORD, MA 02745
TEL 508.985.9050
FAX 508.985.9072

AQUAFAS™

Submit by Email

MLE / ENR FIELD REPORT

Date

Client

Address

City State

Inspector

Effluent Standards

Reason For Site Visit:

☐ O & M ☐ Commissioning

☐ Testing ☐ Other:

(1) Odor

1) Is there odor around the site? ☐ Yes ☐ No

2) Where is the source of odor?

3) If odor is present, check all that apply: ☐ Mild ☐ Medium ☐ Strong ☐ Musty ☐ Septic

(2) Sludge & Scum Depth Measurements

	Scum	Sludge
Grease Trap (if applicable)		
Primary Tank #1(if applicable)		
Primary Tank #2 (if applicable)		
Sludge Digester (if applicable)		
Effluent Tank (if applicable)		

	Scum	Sludge
Clarifier # 1		
Clarifier # 2 (if applicable)		
Clarifier # 3 (if applicable)		
Clarifier # 4 (if applicable)		
Other: _____		

(3) General

1) Any external damage to treatment tank(s) or mechanical equipment? ☐ Yes ☐ No
Provide details in notes section.

2) Hatches, compressor housing(s) and control panels securely locked? ☐ Yes ☐ No

3) Is foam present in any process tanks? ☐ Yes ☐ No
Location of foam & approximate thickness.

4) Air leaks at blower output connections or in manifold piping at tank(s)? ☐ Yes ☐ No

5) Media retaining screen(s) free of debris and scum build up? ☐ Yes ☐ No

If >3" head loss is observed in reactor basin, pump down reactor to visually inspect screen(s). Remove debris as necessary.

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(3) General Continued

Were influent/effluent samples taken for lab analysis? ☐ Yes ☐ No
Please send analytical data to Aquapoint for review

If process control field samples were taken, please provide the following information:

Alkalinity (as $CaCO_3$)		pH		Turbidity (NTU)	
Temperature (F)		DO (mg/l)		NH_3-N (mg/l)	
NO_3-N (mg/l)		Other:			

Sample Locations:

(4) Blowers

1) Are the blowers operating properly? ☐ Yes ☐ No

2) Record the pressure gauge on the compressor housing. *0.5 bar is equal to 7.25 PSI*
Bar PSI

3) Record the blower(s) VFD frequency (Hz).
Blower # 1 Blower # 2 Blower # 3

4) Record the blower(s) running amperage.
Blower # 1 Blower # 2 Blower # 3

5) Record the blower(s) elapsed run time.
Blower # 1 Blower # 2 Blower # 3

6) Record the blower(s) discharge temperature (If applicable).
Blower # 1 Blower # 2 Blower # 3

7) Record the blower(s) oil level.
Blower # 1 Blower # 2 Blower # 3

8) If multiple blowers are installed, indicate how frequently they alternate.

9) Are the blower cooling fans operational (if applicable)? ☐ Yes ☐ No

10) Inspect the air intake filters. Are they clean and free of debris? ☐ Yes ☐ No

Check blower O&M Manual for complete operating instructions ie: oil changes, air filter replacement, etc...

(5) IFAS Aerobic Characterization

	Reactor # 1	Reactor # 2	Reactor # 3
1) What is the color of the biofilm on the media? *(White, Grey, Grey/Brown, Brown, Red/Brown, Black)*			
2) Classify the thickness of the biofilm on the media. *1=light, 2=medium, 3= heavy. Inspect while submerged.*			
3) Perform a 30 minute settleability test. *What is the Mixed Liquor Suspended Solids (MLSS) concentration?*	mg/l	mg/l	mg/l
4) What is the Dissolved Oxygen concentration? *Measure at effluent end of reactor basin.*	mg/l	mg/l	mg/l
5) What is the water temperature?	Deg. C	Deg. C	Deg. C
6) Basin satisfactorily mixed (media 100% submerged)?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7) Is foam present in the reactor?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

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(6) Mechanical Mixers

1) Are the mixer(s) operating properly?	☐ Yes	☐ No					
2) Record the mixer(s) VFD frequency (Hz) (if applicable).	Mixer # 1		Mixer # 2		Mixer # 3		Mixer # 4	
3) Record the mixer(s) running amperage.	Mixer # 1		Mixer # 2		Mixer # 3		Mixer # 4	
4) Indicate the approximate impeller tip speed (Ft/sec).	Mixer # 1		Mixer # 2		Mixer # 3		Mixer # 4	
5) Record the Mixer(s) elapsed run time.	Mixer # 1		Mixer # 2		Mixer # 3		Mixer # 4	
6) Record the Mixer(s) oil level (if applicable)	Mixer # 1		Mixer # 2		Mixer # 3		Mixer # 4	

Check mixer O&M Manual for complete operating instructions ie: oil changes, etc...

(7) IFAS Anoxic Characterization

	Pre-Anoxic Reactor	Post-Anoxic Reactor
1) Perform a 30 minute settleability test. *What is the Mixed Liquor Suspended Solids (MLSS) concentration?*	mg/l	mg/l
2) What is the Dissolved Oxygen concentration? *Measure at effluent end of reactor basin.*	mg/l	mg/l
3) What is the effluent Nitrate-N concentration? *Measure at effluent end of reactor basin.*	mg/l	mg/l
4) What is the water temperature?	Deg. C	Deg. C
5) Basin satisfactorily mixed (no dead spots)?	☐ Yes ☐ No	☐ Yes ☐ No
6) Is foam present in the reactor?	☐ Yes ☐ No	☐ Yes ☐ No

Type of supplemental carbon being used.

Carbon feed rate to Pre-Anoxic Reactor(s)

Carbon feed rate to Post-Anoxic Reactor(s)

If there are discrepancies or test results are not satisfactory, re-calibrate pump and/or adjust the dosing rate based on the influent (nitrate + nitrite) concentration and the average daily flow. Measurement of the influent/effluent Nitrate-N and Nitrite-N will be necessary. Field test kits for Nitrate-N are acceptable for process control. D.O. concentration must remain < 0.5 mg/l to effectively denitrify. See Aquapoint technical manual for assistance with chemical dosing calculations. Call Aquapoint if you require assistance.

(8) Nitrate Recycle Lift Station

1) Measure the following with a field test kit.

Samples should be taken from the effluent end of the basin.

Alkalinity (as $CaCO_3$)		DO (mg/l)	
Temperature (C)		NH_3-N (mg/l)	
pH		NO_3-N (mg/l)	

2) Indicate the recycle pump timer settings and flow rate. Min On Min Off GPM

3) Measure and record the pump amperage. Pump # 1 Pump # 2

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(9) Clarifier(s)

1) Check and record clarity of water in clarifiers.
Characterize particulate, color, turbidity, etc...

2) Is there floating scum on the surface of the water?
If so, manually activate the scum skimmer pump to remove scum. ☐ Yes ☐ No

3) Measure sludge depth in all clarifier(s).
Sludge blanket of < 24" should be maintained. Clrfr #1 Clrfr #2 Clrfr #3 Clrfr #4

4) Record the sludge pump or air compressor amperage. *(Via HMI Screen or amp meter).* Clrfr #1 Clrfr #2 Clrfr #3 Clrfr #4

5) Record the sludge pump or air lift compressor timer settings. Min On Min Off

6) Indicate the sludge wasting frequency and percentage of daily flow rate wasted.

7) Are the effluent weir plates and troughs clean and level? ☐ Yes ☐ No
If not, clean and adjust weir until overflow is uniform.

(10) Control Panel

1) Set pumps, etc to test cycles. Are the timers and contactors operating properly? ☐ Yes ☐ No

2) Visually inspect control components for wear and record any problems below.

3) Ensure that all components are in "NORMAL" or "AUTO" mode and re-set timer settings when inspection is complete.

(11) Final Check

☐ Main Power set to "On" and toggle for all pumps set to "Normal" (or "Auto").
☐ Alarm toggle set to the "On" position.
☐ Control panel, covers/hatches and mechanical equipment enclosures locked.
☐ Record daily flow rate or water meter reading (if possible):

(12) Report Summary:

Note: Contact Aquapoint for replacement parts.

Signature: