

Blowers Recording - Field Data

Significant aspects/risks: aeration system

Frequency: Every 2 hours (Shift/Daily)

Vibrations meter readings every 4 hours (Shift/Daily)

Manual D.O. once a shift

Automatic D.O. every 2 hours

Record / Documentation: Aeration System Checklist (Manual D.O.)

Aeration System Checklist (Automatic D.O.)

Aeration System Checklist (Blowers)

Vibration Meter Readings (Blowers)

Location: Blower Building

Enter Blower building control room

Verify Blower setting (f7 and enter...scroll until blower settings)

Is same as log book recording

Read and record Blower Amps:

Read and record Blower amp #1, 2, 3, 4, and 5

Read and record South Aeration Basin (SAB) Square Cubic Feet Per Minute (SCFM)

Read and record North Aeration Basin (NAB) Square Cubic Feet Per Minute (SCFM)

Read and record Vibration meter readings:

(Master Control panel)

Read and record Vibration Meter #1 Input and output (IPS) inches per sec.

Read and record Vibration Meter #2 Input and output (IPS) inches per sec.

Read and record Vibration Meter #3 Input and output (IPS) inches per sec.

Read and record Vibration Meter #4 Input and output (IPS) inches per sec.

Read and record Vibration Meter #5 Input and output (IPS) inches per sec.

Read and record Blower ETM:

(Blower control panel)

Read and record Blower #1 and 2 ETM

Read and record KWH/DMD left and right (kilowatt hour demand)

Read and record blower #3, 4, and 5 ETM

Go out to grit system and read and record ORP (millivolts)

Return to blower building

Read and record

Check reservoir oil level

Check blower output pressure

Read and record as DSG PSI

(Question 9 or better)

Influent orx every 2 hours
Write on no spot
Wave ox on sheet
South/north basin...reading ch2 auto DO MG/L
SAB/NAB North/South CFM
Blower amps
Adjust variables
Computer control SCFM DO
Bearing vibrations on sheet

Blower ETM
KW Demand Meter-Power company charged... set back once a month
EST time blowers (hours)?

Total Basin Air flow 0-4000
TBAF Date time initial

DORES DO Residual

BAF Basin Air flow

Open door lift needle (lever)
Remove old...w/center knob
Place new
Re-lever...marker @ time
Close door.... Latch
Note : check pen...ink

Date time when removed on old graph

Corrective Operational Considerations

All operators must inform senior operator on shift of changes they are going to make to operation. Senior operators must approve and verify all corrective actions.

Blank Checklist

AERATION SYSTEM CHECKLIST

DATE: _____

TIME:

	<u>INIT</u>	Hour	N. Eff.	D.O. READINGS				<u>TEMP</u>	<u>%CFM</u>	<u>%CFM</u>
				P2	P1	S. Eff.	PS2	PS1		NAB
	SAB									
00:00										
02:00										
04:00										
06:00										
08:00										
10:00										
12:00										
14:00										
16:00										
18:00										
20:00										
22:00										

VIBRATION METER READINGS

	<u>METER #5</u>	<u>METER #1</u>		<u>METER #2</u>		<u>METER #3</u>		<u>METER #4</u>	
		In	Out	In	Out	In	Out	In	Out
00:00									
04:00									
08:00									
12:00									
16:00									
20:00									

AERATION SYSTEM CHECKLIST

DATE: _____

BLOWER

Time #5	AMP					SAB	NAB	BLOWER				
	#1	#2	#3	#4	#5	SCFM	SCFM	#1	#2	ETM	#3	#4
00:00												
02:00												
04:00												
06:00												
08:00												
10:00												
12:00												
14:00												
16:00												
18:00												
20:00												
22:00												

Time	Auto		PSI DSG	Auto		Fuel Leak Check	Initials
	D.O. S	D.O. N		Right Side KWH/DMD	Gen Left Side KWH/DMD		
00:00							
02:00							
04:00							
06:00							
08:00							
10:00							
12:00							
14:00							

16:00							
18:00							
20:00							
22:00							