

Dissolved Oxygen- Manual

Aspects: Aeration basins

Frequency: Once Every Shift (Daily)

Record / Documentation:

Aeration System Checklist

Location: Aeration Basin

Locate and turn on Analog D.O. meter

(Allow approx. 30 min. warm-up)

Turn knob to CALIB O2 position

(Calibration should read Sea Level)

Turn knob to READ TEMP AND SET DIAL position

Carry Analog D.O. meter to Aeration Basin

Place D.O. Probe into Aeration Basin D.O. Bracket

(Provides a consistent measurement point)

Submerge approximately 2/3 of the probe

(Allow approximately one minute for meter reading to stabilize)

Read and compare Basin temperature from meters (Analog and automatic meter)

Record auto Basin temperature reading

Turn knob to Read O2 position

Read and record Analog and Automatic D.O.

[North and South Basins]

N. Eff.= North Basin Analog O2 mg/l

P2= North Basin Automatic meter O2 mg/l

S. Eff. = South Basin Analog meter O2 mg/l

PS2 = South Basin Automatic meter O2 mg/l

Read and record air percentage:

%CFM/SAB=South Basin Air percentages (Auto meter or Butterfly Valve Dial)

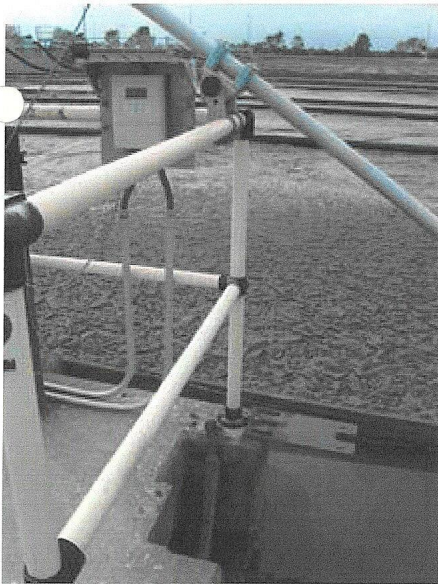
%CFM/NAB= North Basin Air percentages (Auto meter or Butterfly Valve Dial)

Evaluate and adjust the following as necessary:

- Butterfly Valve

Corrective Operational Considerations

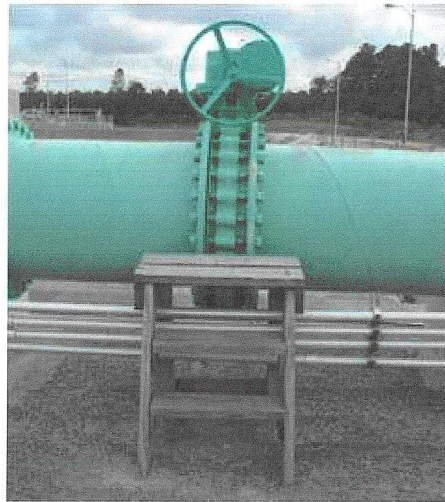
All operators must inform senior operator on shift of changes they are going to make to operation. Senior operators must approve and verify all corrective actions.



Dissolved Oxygen & Temperature Meter (Automatic) @ Aeration Basin



Dissolved Oxygen & Temperature Analog Meter



Butterfly Valve & Dial (Air Percentage)



Air Percentage Meter (Automatic)



Butterfly Valve Dial (Air Percentage)

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