



Minnesota  
Pollution  
Control  
Agency

# DISSOLVED AIR FLOTATION THICKENING - REVIEW CHECKLIST

Water Quality

Wastewater  
Technical  
Review and  
Guidance

Water/Wastewater/#5.23, May 2001

FACILITY NAME

DATE

CONSULTING ENGINEER

SITE INSPECTION (DATE & INSPECTOR)

PLANNING OR DESIGN PHASE

Number of units

Dimensions

Solids Loading (lb./hr./ft.<sup>2</sup>)  
(Minimum - 2 lb./hr./ft.<sup>2</sup>)

Overflow rate (gpm/ft.<sup>2</sup>)  
(Maximum - 0.80 gpm/ft.<sup>2</sup>)

Surface Area (ft.<sup>2</sup>)

Air/Solids Ratio  
(0.01 - 0.06)

Removal Efficiency (%)  
(≥ 95% with flotation aids)

Pressure when dissolving air in water (psi)  
(40-80 with best near 40)

wq-wwtp5-23

Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194  
(651) 296-6300, toll-free (800) 657-3864, TTY (651) 282-5332 or (800) 657-3864

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Recycle Ratio  
( $\geq 1.0$ )

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Detention Period (30 min.)

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Operating Cycle (hrs./wk.)

related to plant size

< 2 mgd-40 hrs/wk

2-5 mgd-80 hrs/wk

5-20 mgd-100 hrs/wk

> 20 mgd-continuous

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Sludge blanket detention period

( $\leq 3$  hrs.)

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Polymer addition facilities?

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Bottom sludge collectors?

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Recycle flow metering controlled by  
Influent flow?

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