



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. ²) (Minimum - 2 lb./hr./ft. ²)	_____
Overflow rate (gpm/ft. ²) (Maximum - 0.80 gpm/ft. ²)	_____
Surface Area (ft. ²)	_____
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)	_____

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Recycle Ratio
(≥ 1.0)

Detention Period (30 min.)

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

Sludge blanket detention period
(≤ 3 hrs.)

Polymer addition facilities?

Bottom sludge collectors?

Recycle flow metering controlled by
Influent flow?
