



Minnesota
Pollution
Control
Agency

Water Quality

Wastewater
Technical
Review and
Guidance

CHEMICAL ADDITION – REVIEW CHECKLIST

Water/Wastewater/#5.14, May 2001

FACILITY NAME

DATE

CONSULTING ENGINEER

SITE INSPECTION (DATE & INSPECTOR)

PLANNING OR DESIGN PHASE

1. Chemical used and purpose of addition.

2. Proposed dose

a. mg/l

b. gpd

c. pilot study performed

(optimum chemical dosages may be
site specific)

3. Storage (liquid)

a. capacity (gal)

b. location (inside/outside)

4. Pumps

a. number

b. capacity each (gal/min)

c. are pumps chemically resistant?

d. type of pump

5. Points(s) of chemical application

(multiple sites can increase effectiveness)

wq-wwtp5-14

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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QUESTIONS

1. Is liquid storage tank adequately heated and insulated?
Contact MPCA “Tanks and Spills” regarding chemical specific
containment requirements. _____
2. Is emergency drain provided for liquid chemical storage tank?
If so, where will chemical drain? _____
3. Are adequate shutoff valves provided to isolate all tanks and
pumps? _____
4. Are cleaning provisions available? _____
5. Is mechanical mixing provided at point of chemical
application? _____
6. Is adequate detention time provided? _____
7. Are supplement additives needed (for example to enhance
settling)? _____
8. Fluid velocities into settling basins should not exceed 1.5
ft/sec to minimize floc disruption. _____
9. Are any dry chemicals or concentrated liquids handled? If so
are there means to adequately dispense? _____
10. Any safety considerations (eyewash/shower, etc.)? _____
11. Are additional sludge handling facilities necessary? _____