

MASSACHUSETTS BOARD OF CERTIFICATION
OF
WASTEWATER TREATMENT PLANT OPERATORS

FACILITY GRADING REPORT

Facility Name:		File No.
Street Address:		
City/Town:	State:	Zip:
Telephone: ()		
Contact Name and Title:		
Discharge Permit Numbers		
NPDES No.		
Date Received:		
Rating Results	Date:	Approved:
Industrial or Municipal:		
Rating Total:		
Grade:		

CLASS

CUMULATIVE RATING VALUE

Class 1 (M or I)
Class 2 (M or I)
Class 3 (M or I)
Class 4 (M or I)
Class 5

1-7
8-20
21-30
31-50
51-65

RATING VALUES FOR CLASSIFICATION OF FACILITIES		
UNIT	RATING	SCORE
Aeration; mechanical or diffused air greater than 0.5 MGD	10	
less than 0.5 MGD	6	
Aeration; sludge, re-aeration	3	
Aeration; pure oxygen greater than 0.5 MGD	10	
BOD Removal	1 and up *	
* BOD Removal Rating = $\frac{\text{Design BOD in Pounds/Day} \times "f"}{1000}$		
"f" = 0.3 for primary treatment and 0.8 for secondary or higher facilities		
Carbon Filter	2-5	
Carbon reactivation	10	
Centrifuge	8	
Chemical addition	2 points per chemical	
Chlorination pre, gas or liquid	2	
Chlorination post, gas or liquid	2-5	
Clarifier, tube setting or inclined plate	2-5	
Clariflocculation	6	
Coagulation and Neutrilization	5	
Comminutation	1	
Condenser	2	
Cooling Tower	1-3	
Dechlorination	2	
Denitrification	5	
Dissolved Air Flotation	5	
Electrodialysis	5	
Equalization	2	
Evaporators	2-5	
Extended Aeration; greater than 0.1 MGD	6	
less than 0.5 MGD		

Extended Aeration equal to or less than 0.1 MGD	4	
Flash Mixing	1	
Flow Measurement	1	
Flocculation	1	
Grit Chamber, Aerated	2	
Grit Chamber manually cleaned	1	
Grit Chamber mechanical grit removal	2	
Heat Exchangers	2	
High rate filtration units less than 0.1 MGD	1	
greater than 0.1 less than 0.5 MGD	2	
greater than 0.5 less than 1.0 MGD	3	
greater than 1.0 MGD	4	
Hypochlorite generation	5	
Hypochlorination pre and/or post	1	
Hydrocyclones(grit removal)	3	
Imhoff tanks	10	
Incineration	1-5	
Ion exchange	2-5	
Laboratory	1-3	
Land Irrigation, spraying	2	
Land Irrigation, direct discharge	2	
Membrane Filtration	3-5	
Nitrification	10	
Odor Control	2-5	
Oil Separation	2	
Oxidation Ditch	5	
Ozonation	5	
pH Neutralization System	5	
Polishing Filter	2	
Post-aeration (cascade)	1	
Pre-aeration (mechanical)	2	
Primary Settling; airlift or manual sludge removal	3	
Primary Settling; mechanical sludge removal	5	
Primary Sludge holding and mixing	2	

Pumping (in plant)	3	
Pumping stations under operator's control	1	
Reaction Vessel	3	
Reverse Osmosis	5	
Rotating Biological Contactors	4	
Rotating Biological Contactors	7	
Rotary Drum Dryers	5	
Sand Filters; Multi media, automatic backwash	3-4	
Sand Filters; intermittent	2	
Sand Filters; polishing	1	
Sand Filters; subsurface	1	
Screens (mechanical)	1	
Scum Concentrator	2	
Secondary Settling; airlift or manual sludge removal	3	
Secondary Settling; mechanical sludge removal	5	
Septage facilities	2-5	
Sludge blending	2	
Sludge Composting	2-5	
Sludge drying Beds	2	
Sludge digestion; aerobic	4	
Sludge digestion; heated and mixed anaerobic	10	
Sludge digestion; heated and unmixed, anaerobic	8	
Sludge digestion; unheated	2	
Sludge elutriation	3	
Sludge incinerators	10	
Sludge press; belt	8	
Sludge press; plate and frame	2-8	
Sludge thickeners; floation	5	
Stabilization ponds; non-aerated	1	
Stabilization ponds; aerated	3	
Stripping; air or steam	2-5	
Trickling Filters; high rate	4	
Trickling Filters; staged	2	

Trickling Filters; standard rate	2	
Ultraviolet disinfection	2-5	
Vacuum Filter	10	
Wet Air Oxidation	10	
Board Policy: Pumping, in plant shall apply only in a situation where the full influent passes through pumps. (Accepted: 1-13-94)		
Board Policy: pH Neutralization System shall be a new rating unit for those systems which include only the following - chemical addition, flow measurement, instrumentation, pumping in plant. There shall be rating range of from 3 to 4 points. (Accepted: 1-13-94)		
Comments:		