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Title 22@ Social Security

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Division 4@ Environmental Health

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Chapter 15@ Domestic Water Quality and Monitoring Regulations

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Article 2@ General Requirements

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Section 64413.1@ Classification of Water Treatment Facilities

## **64413.1 Classification of Water Treatment Facilities**

### **(a)**

Each water treatment facility shall be classified pursuant to Table 64413.1-A based on the calculation of total points for the facility using the factors specified in subsection (b). Table 64413.1-A. Water Treatment Facility Class Designations

Total Points	Class
Less than 20	T1
20 through 39	T2
40 through 59	T3
60 through 79	T4
80 or more	T5

### **(b)**

The calculation of total points for each water treatment facility shall be the sum of the points derived in each of paragraphs (1) through (13). If a treatment facility treats more than one source, the source with the highest average concentration of each contaminant shall be used to determine the point value in paragraphs (2) through (5). (1) For water source, the points are determined pursuant to Table 64413.1-B. Table 64413.1-B. Points for Source Water Used by the Facility

Type of source water used by the facility	Points
Groundwater and/or purchased treated water meeting primary and secondary drinking water standards, as defined in section 116275 of the Health and Safety Code	2
Water that includes any surface water or groundwater under the direct influence of surface water	5

(2) For influent microbiological water quality, points shall be determined by using the median of all total coliform analyses completed in the previous 24 months pursuant to Table 64413.1-C: Table 64413.1-C. Influent Water Microbiological

Quality Points    Median Coliform Density Most Probable Number Index (MPN) Points

less than 1 per 100 mL	0
1 through 100 per 100 mL	2
greater than 100 through 1,000 per 100 mL	4
greater than 1,000 through 10,000 per 100 mL	6
greater than 10,000 per 100 mL	8

(3) For facilities treating surface water or groundwater under the direct influence of surface water, points for influent water turbidity shall be determined pursuant to Table 64413.1-D on the basis of the previous 24 months of data, except that if turbidity data is missing for one or more of the months, the points given for turbidity shall be 5. The maximum influent turbidity sustained for at least one hour according to an on-line turbidimeter shall be used unless such data is not available, in which case, the maximum influent turbidity identified by grab sample shall be used. For facilities that have not been in operation for 24 months, the available data shall be used. For facilities whose permit specifies measures to ensure that influent turbidity will not exceed a specified level, the points corresponding to that level shall be assigned.

Table 64413.1-D. Influent Water Turbidity

Points	Maximum Influent Turbidity Level
	Nephelometric Turbidity Units (NTU)
Less than 15	0
15 through 100	2
Greater than 100	5

(4) The points for influent water perchlorate, nitrate, or nitrite levels shall be determined by an average of the three most recent sample results, pursuant to Table 64413.1-E.

Table 64413.1-E. Influent Water Perchlorate, Nitrate, and Nitrite

Points	Perchlorate, Nitrate, and Nitrite Data Average
	Points
Less than or equal to the maximum contaminant level(MCL), as specified in Table 64431-A	0
For each contaminant greater than its MCL	5

(5) The points for other influent water contaminants with primary MCLs shall be a sum of the points for each of the inorganic contaminants (Table 64431-A), organic contaminants (Table 64444-A) and radionuclides (Tables 64442 and 64443). The points for each contaminant shall be based on an average of the three most recent sample

results, pursuant to Table 64413.1-F. If monitoring for a contaminant has been waived pursuant to sections 64432(m) or (n), 64432.2(c), or 64445(d), the points shall be zero for that contaminant.

**Table 64413.1-F. Influent Water Chemical and Radiological Contaminant Points**

Contaminant Data	Average Points
Less than or equal to the MCL	0
Greater than the MCL	2
5 Times the MCL or greater	5

(6) The total points for surface water filtration treatment shall be the sum of the points of those treatment processes utilized by the facility for compliance with section 64652, pursuant to Table 64413.1-G.

**Table 64413.1-G. Points for Surface Water Filtration Treatment**

Treatment	Treatment Points
Conventional, direct, or inline	15
Diatomaceous earth	12
Slow sand, membrane, cartridge, or bag filter	8
Backwash recycled as part of process	5

(7) The points for each treatment process utilized by the facility and not included in paragraph (6) that is used to reduce the concentration of one or more contaminants for which a primary MCL exists, pursuant to Table 64431-A, Table 64444-A, and Tables 64442 and 64443, shall be 10. Blending shall only be counted as a treatment process if one of the blended sources exceeds a primary MCL.

(8) The points for each treatment process not included in paragraphs (6), or (7) that is used to reduce the concentration of one or more contaminants for which a secondary MCL exists, pursuant to Tables 64449-A and 64449-B, shall be 3. Blending shall only be counted as a treatment process if one of the blended sources exceeds a secondary MCL.

(9) The points for each treatment process not included in paragraphs (6), (7), or (8) that is used for corrosion control or fluoridation shall be 3.

(10) The total points for disinfection treatment shall be the sum of the points for those treatment processes utilized by the facility for compliance with section 64654(a), pursuant to Table 64413.1-H.

**Table 64413.1-H. Points for Disinfection Treatment**

Treatment Process	Points
Ozone	

10 Chlorine and/or chloramine 10 Chlorine dioxide 10 Ultra violet (UV) 7 (11) The points for disinfection/oxidation treatment not included in paragraphs (6), (7), (8), or (10) shall be a sum of the points for all the treatment processes used at the facility pursuant to Table 64413.1-I. Table 64413.1-I. Points for Disinfection/Oxidation Treatment without Inactivation Credit Treatment Process Points Ozone 5 Chlorine and/or chloramine 5 Chlorine dioxide 5 Ultra violet (UV) 3 Other oxidants 5 (12) The points for any other treatment process that alters the physical or chemical characteristics of the drinking water and that was not included in paragraphs (6), (7), (8), (9), (10), or (11) shall be 3. (13) The points for facility flow shall be 2 per million gallons per day or fraction thereof of maximum permitted treatment facility capacity, up to a maximum of 50 points; except that for facilities utilizing only blending, the points shall be based on the flow from the contaminated source and the dilution flow required to meet the MCL(s) specified in Tables 64431-A, 64444-A, 64449-A, 64449-B, and Tables 64442 and 64443.

**(1)**

For water source, the points are determined pursuant to Table 64413.1-B. Table 64413.1-B. Points for Source Water Used by the Facility Type of source water used by the facility Points Groundwater and/or purchased treated water meeting primary and secondary drinking water standards, as defined in section 116275 of the Health and Safety Code 2 Water that includes any surface water or groundwater under the direct influence of surface water 5

**(2)**

For influent microbiological water quality, points shall be determined by using the median of all total coliform analyses completed in the previous 24 months pursuant to Table 64413.1-C: Table 64413.1-C. Influent Water Microbiological Quality Points

Median Coliform Density Most Probable Number Index (MPN) Points less than 1 per 100 mL 0 1 through 100 per 100 mL 2 greater than 100 through 1,000 per 100 mL 4 greater than 1,000 through 10,000 per 100 mL 6 greater than 10,000 per 100 mL 8

**(3)**

For facilities treating surface water or groundwater under the direct influence of surface water, points for influent water turbidity shall be determined pursuant to Table 64413.1-D on the basis of the previous 24 months of data, except that if turbidity data is missing for one or more of the months, the points given for turbidity shall be 5. The maximum influent turbidity sustained for at least one hour according to an on-line turbidimeter shall be used unless such data is not available, in which case, the maximum influent turbidity identified by grab sample shall be used. For facilities that have not been in operation for 24 months, the available data shall be used. For facilities whose permit specifies measures to ensure that influent turbidity will not exceed a specified level, the points corresponding to that level shall be assigned.

Table 64413.1-D. Influent Water Turbidity Points Maximum Influent Turbidity Level Nephelometric Turbidity Units (NTU) Points Less than 15 0 15 through 100 2 Greater than 100 5

**(4)**

The points for influent water perchlorate, nitrate, or nitrite levels shall be determined by an average of the three most recent sample results, pursuant to Table 64413.1-E.

Table 64413.1-E. Influent Water Perchlorate, Nitrate, and Nitrite Points Perchlorate, Nitrate, and Nitrite Data Average Points Less than or equal to the maximum contaminant level(MCL), as specified in Table 64431-A 0 For each contaminant greater than its MCL 5

**(5)**

The points for other influent water contaminants with primary MCLs shall be a sum of

the points for each of the inorganic contaminants (Table 64431-A), organic contaminants (Table 64444-A) and radionuclides (Tables 64442 and 64443). The points for each contaminant shall be based on an average of the three most recent sample results, pursuant to Table 64413.1-F. If monitoring for a contaminant has been waived pursuant to sections 64432(m) or (n), 64432.2(c), or 64445(d), the points shall be zero for that contaminant.

Table 64413.1-F. Influent Water Chemical and Radiological Contaminant Points

Contaminant Data	Average Points
Less than or equal to the MCL	0
Greater than the MCL	2
5 Times the MCL or greater	5

**(6)**

The total points for surface water filtration treatment shall be the sum of the points of those treatment processes utilized by the facility for compliance with section 64652, pursuant to Table 64413.1-G.

Table 64413.1-G. Points for Surface Water Filtration Treatment

Treatment	Treatment Points
Conventional, direct, or inline	15
Diatomaceous earth	12
Slow sand, membrane, cartridge, or bag filter	8
Backwash recycled as part of process	5

**(7)**

The points for each treatment process utilized by the facility and not included in paragraph (6) that is used to reduce the concentration of one or more contaminants for which a primary MCL exists, pursuant to Table 64431-A, Table 64444-A, and Tables 64442 and 64443, shall be 10. Blending shall only be counted as a treatment process if one of the blended sources exceeds a primary MCL.

**(8)**

The points for each treatment process not included in paragraphs (6), or (7) that is used to reduce the concentration of one or more contaminants for which a secondary MCL exists, pursuant to Tables 64449-A and 64449-B, shall be 3. Blending shall only be counted as a treatment process if one of the blended sources exceeds a secondary

MCL.

**(9)**

The points for each treatment process not included in paragraphs (6), (7), or (8) that is used for corrosion control or fluoridation shall be 3.

**(10)**

The total points for disinfection treatment shall be the sum of the points for those treatment processes utilized by the facility for compliance with section 64654(a), pursuant to Table 64413.1-H. Table 64413.1-H. Points for Disinfection Treatment

Treatment Process	Points
Ozone	10
Chlorine and/or chloramine	10
Chlorine dioxide	10
Ultra violet (UV)	7

**(11)**

The points for disinfection/oxidation treatment not included in paragraphs (6), (7), (8), or (10) shall be a sum of the points for all the treatment processes used at the facility pursuant to Table 64413.1-I. Table 64413.1-I. Points for Disinfection/Oxidation

Treatment without Inactivation Credit	Treatment Process	Points
Ozone	5	
Chlorine and/or chloramine	5	
Chlorine dioxide	5	
Ultra violet (UV)	3	
Other oxidants	5	

**(12)**

The points for any other treatment process that alters the physical or chemical characteristics of the drinking water and that was not included in paragraphs (6), (7), (8), (9), (10), or (11) shall be 3.

**(13)**

The points for facility flow shall be 2 per million gallons per day or fraction thereof of maximum permitted treatment facility capacity, up to a maximum of 50 points; except that for facilities utilizing only blending, the points shall be based on the flow from the contaminated source and the dilution flow required to meet the MCL(s) specified in Tables 64431-A, 64444-A, 64449-A, 64449-B, and Tables 64442 and 64443.