

STAGE 1 D/DBP

Insight Into the Regulation:

Monitoring:

Groundwater Systems > 10,000: One Total Trihalomethanes (TTHM) TTHM and Haloacetic Acids (HAA5) sample per quarter at the maximum residence time in the distribution system.

Groundwater Systems < 10,000: One TTHM and HAA5 sample per year during the warmest water temperature at the maximum residence time in the distribution system.

If more than one sample is taken, at least 25 percent of the samples must be taken at locations representative of maximum residence time.

Reduced Monitoring:

Groundwater Systems > 10,000: One TTHM and HAA5 sample per year during the warmest water temperature at the maximum residence time in the distribution system, if the system has completed at least one year of routine monitoring and both the TTHM and HAA5 RAAs are not more than 40 and 30 ppb, respectively.

Groundwater Systems < 10,000: One TTHM and HAA5 sample every three years during the warmest water temperature at the maximum residence time in the distribution system if the system has completed at least two years of routine monitoring and both the TTHM and HAA5 RAAs are not more than 40 and 30 ppb, respectively, or if the system has completed one year of monitoring and both the TTHM and HAA5 annual samples are not more than 20 ppb and 15 ppb, respectively.

Important Dates in History of Stage 1 D/DBP Rule

The Stage 1 Disinfectants/Disinfection By-Products (D/DBP) Rule was finalized in December 1998. The Stage 1 D/DBP Rule applies to systems of all sizes that apply a chemical disinfectant for primary or residual treatment.

January 1, 2002 was the compliance date for surface water and groundwater under the direct influence of surface water (GWUDI) systems serving 10,000 or more. A two-year capital improvements extension was available for these systems.

January 1, 2004 was the compliance date for surface water systems serving less than 10,000 and all groundwater systems.

| Maximum Contaminant Levels (MCLs) and MCL Goals (MCLGs) | | |
|--|------------|-----------|
| DBP | MCL | MCLG |
| TTHMs | 0.080 mg/L | --- |
| Bromoform | --- | Zero |
| Bromodichloromethane | --- | Zero |
| Chloroform | --- | --- |
| Dibromochloromethane | --- | 0.06 |
| HAA5 | 0.060 mg/L | --- |
| Dibromoacetic Acid | --- | --- |
| Dichloroacetic Acid | --- | Zero |
| Monobromoacetic Acid | --- | --- |
| Monochloroacetic Acid | --- | --- |
| Trichloroacetic Acid | --- | 0.3 mg/L |
| Chlorite | 1.0 mg/L | 0.80 mg/L |
| Bromate | 0.010 mg/L | Zero |
| Maximum Residual Disinfectant Levels (MRDLs) and MRDL Goals (MRDLGs) | | |
| Disinfectant | MRDL | MRDLG |
| Chlorine | 4.0 mg/L | 4 mg/L |
| Chloramine | 4.0 mg/L | 4 mg/L |
| Chlorine Dioxide | 0.8 mg/L | 0.8 mg/L |