WEST VIRGINIA

SECRETARY OF STATE

KEN HECHLER

ADMINISTRATIVE LAW DIVISION

Form #6

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OFFICE OF WEST VIRGINIA SECRETARY OF STATE

NOTICE OF FINAL FILING AND ADOPTION OF A LEGISLATIVE RULE AUTHORIZED BY THE WEST VIRGINIA LEGISLATURE.

AGENCY: Board of Health TITLE NUMBER: 64

AMENDMENT TO AN EXISTING RULE: YES___, NO X

IF YES, SERIES NUMBER OF RULE BEING AMENDED: _____

TITLE OF RULE BEING AMENDED: _____

_____

IF NO, SERIES NUMBER OF NEW RULE BEING PROPOSED: 61

TITLE OF RULE BEING PROPOSED: Volatile Synthetic Organic Chemicals

THE ABOVE RULE HAS BEEN AUTHORIZED BY THE WEST VIRGINIA LEGISLATURE.

AUTHORIZATION IS CITED IN (house or senate bill number) HB 2853

SECTION 64-2-1 (11), PASSED ON April 8, 1989.

THIS RULE IS FILED WITH THE SECRETARY OF STATE. THIS RULE BECOMES EFFECTIVE ON THE FOLLOWING DATE: July 1, 1989

David K. Heydinger, M.D.

David K. Heydinger, M.D.
Director of Health

Table 64-61A. Maximum Contaminant Levels For Volatile Synthetic Organic Chemicals

Contaminant	MCL in Milligrams per Liter
Benzene	0.005
Carbon Tetrachloride	0.005
p-Dichlorobenzene	0.075
1,2-Dichloroethane	0.005
1,1-Dichloroethylene	0.007
1,1,1-Trichloroethane	0.20
Trichloroethylene	0.005
Vinyl Chloride	0.002

Table 64-61B. Deadlines for Initial Analysis for Community and Non-Transient Non-Community Systems

System Size	Deadline
>10,000 People	Quarter Beginning January 1, 1988
3,300-10,000 People	Quarter Beginning January 1, 1989
<3,300 People	Quarter Beginning January 1, 1991

Table 64-61C. Repeat Monitoring Frequency for VOCs in Ground Water Systems

System Size and Vulnerability	VOCs Not Detected In First Sample	VOCs Detected
Vulnerable System, >500 Connections	Every 3 Years	Every 3 Months
Vulnerable System, <500 Connections	Every 5 Years	Every 3 Months
System Not Vulnerable	Every 5 Years	Every 3 Months

Table 64-61D. Repeat Monitoring Frequency for VOCs in Surface Water Systems

System Size and Vulnerability	During First Year of Monitoring	VOCs Not Detected During First Year of Monitoring	VOCs Detected
Vulnerable System, >500 Connections	Quarterly	Every 3 Years	Quarterly
Vulnerable System, <500 Connections	Quarterly	Every 5 Years	Quarterly
System Not Vulnerable	Quarterly	Not Required	Quarterly

TABLE 64-61E. Repeat Monitoring Fequency for Vinyl Chloride

Initial Analysis	Repeat Sampling Per Sample Location
Vinyl Chloride Detected	Quarterly
Vinyl Chloride Not Detected	Every 3 Years

TABLE 64-61F. Unregulated Contaminants

Bromobenzene
Bromodichloromethane
Bromoform
Bromomethane
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
o-Chlorotoluene
p-Chlorotoluene
Dibromomethane
1,2-Dibromo-3-chloropropane[1]
m-Dichlorobenzene
o-Dichlorobenzene
trans-1,2-Dichloroethylene
cis-1,2-Dichloroethylene
Dichloromethane
1,1-Dichloroethane
1,1-Dichloropropene
1,2-Dichloropropane
1,3-Dichloropropane
1,3-Dichloropropene
2,2-Dichloropropane
Ethylbenzene
Ethylene dibromide[1]
Styrene
1,1,2-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,2,3-Trichloropropane
Toluene
p-Xylene
o-Xylene
m-Xylene

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1. Monitoring required only if the director determines that the system is vulnerable to contamination by either or both substances.

TABLE 64-61G. Monitoring for Unregulated Contaminants

Number of persons served	Monitoring shall begin no later than:
Over 10,000	January 1, 1988
3,300 to 10,000	January 1, 1989
Less than 3,300	January 1, 1991

TABLE 64-61H. Repeat Monitoring Frequency for Unregulated Contaminants

Type of System	First Year of Monitoring	After First Year
Ground Water Systems (Per Entry Point)	One Sample	Every 5 Years
Surface Water Systems (Per Water Source)	Quarterly	Every 5 Years

TABLE 64-61I. Approved Analytical Methods for VOCs and Unregulated Contaminants[1]

Contaminant	Applicable Methods	
	Packed Methods	Capillary Column
Benzene	503.1, 524.1	502.2, 524.2
Bromobenzene	502.1, 503.1, 524.1	502.2, 524.2
Bromodichloromethane	502.1, 524.1	502.2, 524.2
Bromoform	502.1, 524.1	502.2, 524.2
Bromomethane	502.1, 524.1	502.2, 524.2
Carbon tetrachloride	502.1, 524.1	502.2, 524.2
Chlorobenzene	502.1, 503.1, 524.1	505.2, 524.2
Chlorodibromomethane	502.1, 524.1	502.2, 524.2
Chloroethane	502.1, 524.1	505.2, 524.2
Chloroform	502.1, 524.1	502.2, 524.2
Chloromethane	502.1, 524.1	505.2, 524.2
o-Chlorotoluene	502.1, 503.1, 524.1	502.2, 524.2
p-Chlorotoluene	502.1, 503.1, 524.1	502.2, 524.2
Dibromomethane	502.1, 524.1	502.2, 524.2
1,2-Dibromo-3-chloropropane	--	504
o-Dichlorobenzene	502.1, 503.1, 524.1	502.2, 524.2
m-Dichlorobenzene	502.1, 503.1, 524.1	505.2, 524.2
para-Dichlorobenzene	502.1, 503.1, 524.1	502.2, 524.2
1,1-Dichloroethane	502.1, 524.1	502.2, 524.2
1,2-Dichloroethane	502.1, 524.1	502.2, 524.2
1,1-Dichloroethylene	502.1, 524.1	502.2, 524.2
cis-1,2-Dichloroethylene	502.1, 524.1	502.2, 524.2
trans-1,2-Dichloroethylene	502.1, 524.1	502.2, 524.2
Dichloromethane	502.1, 524.1	502.2, 524.2
1,2-Dichloropropane	502.1, 524.1	502.2, 524.2
1,3-Dichloropropane	502.1, 524.1	502.2, 524.2
2,2-Dichloropropane	502.1, 524.1	502.2, 524.2
1,1-Dichloropropene	502.1, 524.1	502.2, 524.2
1,3-Dichloropropene	502.1, 524.1	502.2, 524.2
Ethylbenzene	503.1, 524.1	502.2, 524.2
Ethylene dibromide	--	504
Styrene	503.1, 524.1	502.2, 524.2
1,1,1,2-Tetrachloroethane	502.1, 524.1	502.2, 524.2
1,1,2,2-Tetrachloroethane	502.1, 524.1	502.2, 524.2
Tetrachloroethylene	502.1, 503.1, 524.1	502.2, 524.2
1,1,1-Trichloroethane	502.1, 524.1	502.2, 524.2
1,1,2-Trichloroethane	502.1, 524.1	502.2, 524.2
Trichloroethylene	502.1, 503.1, 524.1	502.2, 524.2
Toluene	503.1, 524.1	502.2, 524.2
1,2,3-Trichloropropane	502.1, 524.1	502.2, 524.2
Vinyl chloride	502.1, 524.1	502.2, 524.2
o-Xylene	503.1, 524.1	502.2, 524.2
m-Xylene	503.1, 524.1	502.2, 524.2
p-Xylene	503.1, 524.1	502.2, 524.2

1. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water, September, 1986, EMSL-CI, USEPA, Cincinnati, Ohio 45268.

TABLE 64-61J. Analytical Methods

Method 502.1 -- Volatile Halogenated Organic Compounds in Water by Purge and Trap Gas Chromatography

Method 502.2 -- VOCs in Water by Purge and Trap Gas Chromatography with Photoionization and Electrolytic Conductors in Series

Method 504 -- Measurement of 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP) in Drinking Water by Microextraction and Gas Chromatography

Method 503.1 -- Volatile Aromatic and Unsaturated Organic Compounds in Water by Purge and Trap Gas Chromatography

Method 524.1 -- Volatile Organic Compounds in Water by Purge and Trap Gas Chromatography/Mass Spectrometry

Method 524.2 -- VOCs in Water by Purge and Trap Capillary Column Gas Chromatography/Mass Spectrometry