

MON Workshop – Wastewater Attachments

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Conversion to gallons

$$0.02 \text{ Liters/min} \times \frac{\text{gallon}}{3.785 \text{ liter}} = .0053 \text{ gal/min} = 2777. \text{ gal/year}$$

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MON Tables 8 and 9 - See end of Federal Register copy in workshop notebook.

HON Table 8 HAPs (very volatile compounds)

Allyl chloride	Methyl bromide
Benzene	Methyl chloride
Butadiene (1,3-)	Phosgene
Carbon disulfide	Tetrachloroethylene
Carbon tetrachloride	Toluene
Cumene	Trichloroethane (1,1,1-)
Ethylbenzene	Trichloroethylene
Ethyl chloride	Trimethylpentane (2,2,4-)
Ethylidene dichloride	Vinyl chloride
Hexachlorobutadiene	Vinylidene chloride
Hexachloroethane	Xylene (meta)
Hexane	Xylene (para)

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Conversion to gallons

$$1.0 \text{ L/min flow} = \frac{\text{gallon}}{3.785 \text{ liter}} = 0.264 \text{ gal/min} = 138,860 \text{ gal/yr}$$

30,000 ppmw at 1.0 L/min = 2000 lb HAP in 8006 gallon volume

assuming 1.0 ppmw = 1.0 milligram/liter

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Annual HAP mass = $(300 \times 75) + (250 \times 100) = 47,500$ lbs HAP
Annual wastewater volume = $(500 \times 75) + (800 \times 100) = 117,500$ gallons

Annual average conc. = total HAP mass / total wastewater volume
= $47,500 \text{ lbs} / 117,500 \text{ gal} = 0.404 \text{ lb HAP/gal}$
= $48,459 \text{ mg/L}$ and assuming 1.0 mg/L is 1.0 ppmw
= $48,459 \text{ ppmw}$

Annual average flowrate = $117,500 \text{ gal/year} = 13.4 \text{ gal/hr}$
= 0.85 L/min

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Titles of Referenced Wastewater Sections from HON Rule

63.132 - Process Wastewater Provisions - general
63.133 - Wastewater Tanks
63.134 - Surface Impoundments
63.135 - Containers
63.136 - Individual Drain Systems (IDS)
63.137 - Oil/Water Separators
63.138 - Performance Standards for Managing Group 1 and/or Residuals
63.139 - Control Devices
63.140 - Delay of Repair
63.141 - (reserved)
63.142 - (reserved)
63.143 - Inspection and Monitoring of Operation
63.144 - Test Methods and Procedures for G1/G2 Determination
63.145 - Test methods and Procedures to determine Compliance
63.146 - Reporting
63.147 - Record Keeping
63.148 - Leak Inspection Provisions
63.149 - Certain Liquid Streams in Open Systems
