

**Environmental Protection Agency**

**§ 439.47**

Regulated parameter	Effluent limitations <sup>1</sup>	
	Maximum daily discharge	Average monthly discharge must not exceed
COD .....	228	86
pH .....	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> Mg/L (ppm).  
<sup>2</sup> Within the range 6.0 to 9.0.

(d) If the average monthly COD concentrations in paragraph (c) of this section are higher than concentration values reflecting a reduction in the long-term average daily COD load in the raw (untreated) process wastewater of 74 percent multiplied by a variability factor of 2.2, then the average monthly effluent limitations for COD corresponding to the lower concentration values must be applied.

[63 FR 50435, Sept. 21, 1998]

**§ 439.43 Effluent limitations attainable by the application of the best conventional pollutant control technology (BCT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BCT: Limitations for BOD<sub>5</sub>, TSS and pH are the same as the corresponding limitations in § 439.42.

[63 FR 50436, Sept. 21, 1998]

**§ 439.44 Effluent limitations attainable by the application of best available technology economically achievable (BAT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BAT. Limitations for COD are the same as the corresponding limitations in § 439.42 (c) and (d).

[63 FR 50436, Sept. 21, 1998]

**§ 439.45 Standards of performance for new (point) sources (NSPS).**

(a) Any new source subject to this subpart must achieve the following performance standards:

Regulated parameter	Performance standards <sup>1</sup>	
	Maximum daily discharge	Average monthly discharge must not exceed
BOD <sub>5</sub> .....	35	18
TSS .....	58	31
COD .....	228	86
pH .....	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> Mg/L (ppm).  
<sup>2</sup> Within the range 6.0 to 9.0.

(b) Any new source subject to the provisions of this section that commenced discharging after November 21, 1988 and prior to November 20, 1998 must continue to achieve the standards specified in the earlier version of this section until the expiration of the applicable time period specified in 40 CFR 122.29(d)(1), after which the source must achieve the standards specified in § 439.43 and 439.44.

[63 FR 50436, Sept. 21, 1998]

**§ 439.46 Pretreatment standards for existing sources (PSES).**

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart must achieve the following pretreatment standards by September 21, 2001:

Regulated parameter	Pretreatment standards <sup>1</sup>	
	Maximum daily discharge	Average monthly discharge must not exceed
1 Acetone .....	20.7	8.2
2 n-Amyl acetate .....	20.7	8.2
3 Ethyl acetate .....	20.7	8.2
4 Isopropyl acetate .....	20.7	8.2
5 Methylene chloride .....	3.0	0.7

<sup>1</sup> Mg/L (ppm).

[63 FR 50436, Sept. 21, 1998]

**§ 439.47 Pretreatment standards for new sources (PSNS).**

Except as provided in 40 CFR 403.7, any new source subject to this subpart must achieve the following pretreatment standards:

Regulated parameter	Pretreatment standards <sup>1</sup>	
	Maximum daily discharge	Average monthly discharge must not exceed
1 Acetone .....	20.7	8.2
2 n-Amyl acetate .....	20.7	8.2
3 Ethyl acetate .....	20.7	8.2
4 Isopropyl acetate .....	20.7	8.2

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Regulated parameter	Pretreatment standards <sup>1</sup>	
	Maximum daily discharge	Average monthly discharge must not exceed
5 Methylene chloride .....	3.0	0.7

<sup>1</sup> Mg/L (ppm).

[63 FR 50436, Sept. 21, 1998; 64 FR 48104, Sept. 2, 1999]

**Subpart E—Research Subcategory**

**§ 439.50 Applicability.**

This subpart applies to discharges of process wastewater resulting from pharmaceutical research.

[63 FR 50436, Sept. 21, 1998]

**§ 439.51 Specialized definitions.**

For the purpose of this subpart, the term product means products or services resulting from research and product development activities.

[63 FR 50436, Sept. 21, 1998]

**§ 439.52 Effluent limitations attainable by the application of the best practicable control technology currently available (BPT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BPT:

(a) The average monthly effluent limitation for BOD<sub>5</sub>, expressed as mass loading (pounds, kilograms) per day, must reflect not less than 90 percent reduction in the long-term average daily BOD<sub>5</sub> load of the raw (untreated) process wastewater, multiplied by a variability factor of 3.0. No facility shall be required to attain a limitation for BOD<sub>5</sub> that is less than the equivalent of 45 mg/L.

(b) The average monthly effluent limitation for COD, expressed as mass loading (pounds, kilograms) per day, must reflect not less than 74 percent reduction in the long-term average

daily COD load of the raw (untreated) process wastewater, multiplied by a variability factor of 2.2. No facility shall be required to attain a limitation for COD that is less than the equivalent of 220 mg/L.

(c) The long-term average daily BOD<sub>5</sub> or COD mass loading of the raw process wastewater (i.e., the base number to which the percent reduction is applied) is defined as the average daily BOD<sub>5</sub> or COD load during any calendar month, over 12 consecutive months within the most recent 36 months.

(1) To assure equity in the determination of NPDES permit limitations regulating discharges subject to this subpart, calculation of the long-term average daily BOD<sub>5</sub> or COD load in the influent to the wastewater treatment system must exclude any portion of the load associated with solvents, except for residual amounts of solvents remaining after the practices of recovery and/or separate disposal or reuse. Residual amounts of these substances may be included in the calculation of the average influent BOD<sub>5</sub> or COD loading.

(2) The practices of recovery, and/or separate disposal or reuse include: recovery of solvents from wastestreams; and incineration of concentrated solvent wastestreams (including tar still bottoms). This part does not prohibit the inclusion of such wastes in raw waste loads in fact, nor does it mandate any specific practice, but rather describes the rationale for determining NPDES permit limitations. The effluent limitation for BOD<sub>5</sub> or COD may be achieved by any of several, or a combination, of these practices.

(d) The average monthly effluent limitation for TSS, expressed as mass loading (pounds, kilograms) per day, must be calculated as 1.7 times the BOD<sub>5</sub> limitation determined in paragraph (a) of this section.

(e) The pH must be within the range 6.0 to 9.0.

[63 FR 50436, Sept. 21, 1998]