

## 4. What are the Pollutants Regulated by the Rule

The tables below show what pollutants are regulated under the pharmaceutical regulations.

Permit writers and others should recall that different standards will apply to sources that are new depending on when the sources was a new source. EPA amended paragraph (c) in four sections of the regulation (439.15(c), 439.25(c), 439.35(c), and 439.45(c)) to state clearly that any new source that commenced discharging after November 21, 1988 and before November 20, 1998 must continue to achieve the standards specified for 40 CFR Part 439 in the October 27, 1983 *Federal Register* (48 FR 49808). These standards applied until the applicable time period specified in 40 CFR 122.29(d)(1) (10 years) had expired. After this, the facility must meet the current BCT and BAT requirements.

**Table 4-1: Pollutants Regulated Under BPT**

Pollutants	Subpart A	Subpart B	Subpart C	Subpart D	Subpart E
BOD <sub>5</sub>	✓	✓*	✓	✓*	✓
COD	✓	✓	✓	✓	✓
TSS	✓	✓	✓	✓	✓
pH	✓	✓	✓	✓	✓
Cyanide	✓		✓		

**Table 4-2: Pollutants Regulated Under BCT**

Pollutants	Subpart A	Subpart B	Subpart C	Subpart D	Subpart E
BOD <sub>5</sub>	✓	✓	✓	✓	
TSS	✓	✓	✓	✓	
pH	✓	✓	✓	✓	

\*On March 13, 2003, EPA corrected the omission of a minimum BOD<sub>5</sub> limitation from two sections of the regulation promulgated on September 21, 1998 by adding to §§ 439.22(a) and 439.42(a) the phrase "except that no facility shall be required to attain a monthly average limitation for BOD<sub>5</sub> that is less than the equivalent of 45 mg/L."

**Table 4-3: Pollutants Regulated Under BAT**

Pollutants	Subpart A	Subpart B	Subpart C	Subpart D	Subpart E
COD	✓	✓	✓	✓	
Acetone	✓		✓		
Acetonitrile	✓		✓		
Ammonia	✓		✓		
n-Amyl acetate	✓		✓		
Amyl alcohol	✓		✓		
Benzene	✓		✓		
n-Butyl alcohol	✓		✓		
Chlorobenzene	✓		✓		
Chloroform	✓		✓		
Cyanide	✓ (a)	(a)	✓ (a)	(a)	
o-Dichlorobenzene	✓		✓		
1,2-Dichloroethane	✓		✓		
Diethylamine	✓		✓		
Dimethyl sulfoxide	✓		✓		
Ethanol	✓		✓		
Ethyl acetate	✓		✓		
n-Heptane	✓		✓		
n-Hexane	✓		✓		
Isobutyraldehyde	✓		✓		
Isopropanol	✓		✓		
Isopropyl acetate	✓		✓		
Isopropyl ether	✓		✓		
Methanol	✓		✓		
Methyl cellosolve	✓		✓		
Methyl formate	✓		✓		
Methyl isobutyl ketone (MIBK)	✓		✓		
Methylene chloride	✓		✓		
Phenol	✓		✓		
Tetrahydrofuran	✓		✓		
Toluene	✓		✓		
Triethylamine	✓		✓		
Xylenes	✓		✓		

(a) These pollutants were regulated by the previous regulations.

**Table 4-4: Pollutants Regulated Under NSPS**

Pollutants	Subpart A	Subpart B	Subpart C	Subpart D	Subpart E
BOD <sub>5</sub>	✓	✓	✓	✓	
COD	✓	✓	✓	✓	
pH	✓ <sup>(a)</sup>	✓ <sup>(a)</sup>	✓ <sup>(a)</sup>	✓ <sup>(a)</sup>	
TSS	✓	✓	✓	✓	
Acetone	✓		✓		
Acetonitrile	✓		✓		
Ammonia	✓		✓		
n-Amyl acetate	✓		✓		
Amyl alcohol	✓		✓		
Benzene	✓		✓		
n-Butyl acetate	✓		✓		
Chlorobenzene	✓		✓		
Chloroform	✓		✓		
Cyanide	✓ <sup>(a)</sup>	<sup>(a)</sup>	✓ <sup>(a)</sup>	<sup>(a)</sup>	
o-Dichlorobenzene	✓		✓		
1,2-Dichloroethane	✓		✓		
Diethylamine	✓		✓		
Dimethyl sulfoxide	✓		✓		
Ethanol	✓		✓		
Ethyl acetate	✓		✓		
n-Heptane	✓		✓		
n-Hexane	✓		✓		
Isobutyraldehyde	✓		✓		
Isopropanol	✓		✓		
Isopropyl acetate	✓		✓		
Isopropyl ether	✓		✓		
Methanol	✓		✓		
Methyl cellosolve	✓		✓		
Methyl formate	✓		✓		
Methyl isobutyl ketone (MIBK)	✓		✓		
Methylene chloride	✓		✓		
Phenol	✓		✓		
Tetrahydrofuran	✓		✓		
Toluene	✓		✓		
Triethylamine	✓		✓		
Xylenes	✓		✓		

<sup>(a)</sup> These pollutants were regulated by the previous regulations.

**Table 4-5: Pollutants Regulated Under PSES and PSNS**

Pollutants	Subpart A	Subpart B	Subpart C	Subpart D	Subpart E
Acetone	✓	✓	✓	✓	
Ammonia	✓		✓		
n-Amyl acetate	✓	✓	✓	✓	
Benzene	✓		✓		
n-Butyl acetate	✓		✓		
Chlorobenzene	✓		✓		
Chloroform	✓		✓		
Cyanide	✓ <sup>(a)</sup>	<sup>(a)</sup>	✓ <sup>(a)</sup>	<sup>(a)</sup>	
o-Dichlorobenzene	✓		✓		
1,2-Dichloroethane	✓		✓		
Diethylamine	✓		✓		
Ethyl acetate	✓	✓	✓	✓	
n-Heptane	✓		✓		
n-Hexane	✓		✓		
Isobutyraldehyde	✓		✓		
Isopropyl acetate	✓	✓	✓	✓	
Isopropyl ether	✓		✓		
Methyl formate	✓		✓		
Methyl isobutyl ketone (MIBK)	✓		✓		
Methylene chloride	✓	✓	✓	✓	
Tetrahydrofuran	✓		✓		
Toluene	✓		✓		
Triethylamine	✓		✓		
Xylenes	✓		✓		

<sup>(a)</sup> These pollutants were regulated by the previous regulations.