

BASELINE MONITORING REPORT (BMR)

Centralized Waste Treatment (Part 437) Point Source Category Regulations (Please print or type)

I. Company Information

Name: _____ Tel: (____) _____

_____ Situs Address: _____

Zip _____

Mailing Address: _____

_____ Zip _____

Industrial Wastewater Discharge Permit Number¹ _____

Standard Industrial Classification (SIC) Number(s) characterizing operations at this facility _____

Company's Industrial Waste Contact Person _____

Title: _____

_____ Person In Charge of Local Operations: _____

_____ Title: _____

Owner of Company (parent company or corporate entity if appropriate): _____

_____ Address of Owner: _____

II. Environmental Control Permits - List environmental control permits held by or for your facility:

III. Description of Operations

IMPORTANT: Attach a schematic process diagram to this report. The diagram must indicate points of discharge to the sewer from treatment processes.

Describe waste treatment operations and any other operations conducted at your facility.

¹One Baseline Monitoring Report (BMR) must be completed for **every** industrial wastewater discharge point to the sewer from your facility.

What is the average volume of waste accepted for treatment at your facility: _____ gallons/day

IV. Flow Measurement Information - Complete the following tables.

Description of EPA Regulated Wastewater Flows ²	Average Daily Flow (gal/day)	Maximum Daily Flow (gal/day)	Flow Description ³	
			E/M	I/C

Description of Unregulated Wastewater Flows ⁴	Average Daily Flow (gal/day)	Maximum Daily Flow (gal/day)	Flow Description ³	
			E/M	I/C

Description of Dilution Flows ⁵	Average Daily Flow (gal/day)	Maximum Daily Flow (gal/day)	Flow Description ³	
			E/M	I/C

²Separately include all wastestreams discharging to this connection/outfall which are covered by EPA categorical regulations. This includes all wastewater from treating off-site waste and also includes wastewater from cleaning of tanker trucks at facilities that both clean tanker trucks and treat off-site waster.

³Please indicate by letter in this column whether wastewater flow value is (E) Estimated or (M) Measured, and (I) Intermittent or (C) Continuous.

⁴Includes wastewater flows to this connection/outfall from operations not covered by EPA categorical regulations and not considered dilution flows. Wastewater generated from treatment of grease trap wastes and wastes generated from food service and food processing is included here.

⁵Dilution flows include non-contact cooling water, boiler blowdown, hydrotest water, uncontaminated stormwater, D.I. backwash and R.O. reject water from incoming water supply treatment, wastestreams listed in Appendix D to 40 CFR 403 and sanitary wastes. Sanitary wastes should not be listed here unless they discharge through the legal sampling point.

V. Subcategory Determination

Discharge limitations for the Centralized Waste Treatment category depend upon the type of wastes received: metals wastes, oily wastes, and/or organics wastes. If your facility only receives wastes in one subcategory, it is regulated in that subcategory. If your facility receives waste in more than one subcategory, it is regulated under the Multiple Wastestreams Subcategory.

Oily Wastes

Your facility accepts oily wastes if you answer yes to either of the following questions:

- 1A. Does your facility accept any of the following types of oily wastes? Yes No
Used oils, oil-water emulsions or mixtures, lubricants, coolants, contaminated groundwater clean-up from petroleum sources, used petroleum products, oil spill clean-up, bilge water, rinse/wash water from petroleum sources, interceptor wastes, off-specification fuels, underground storage remediation waste, tank clean-out from petroleum or oily sources, non-contact used glycols, aqueous and oil mixtures from parts cleaning operations, and wastewater from oil bearing pain washes.
- 1B. Does your facility accept wastes that are not listed in questions 1A, 2A, or 3A AND that contain oil and grease at 100 mg/l or greater? Yes No

Metals Wastes

Your facility accepts metals wastes if you answer yes to either of the following questions:

- 2A. Does your facility accept any of the following types of metals wastes? Yes No
Spent electroplating baths and/or sludges, metal finishing rinse water and sludges, chromate wastes, air pollution control blow down water and sludges, spent anodizing solutions, incineration wastewaters, waste liquid mercury, cyanide-containing wastes, waste acids and bases with or without metals, cleaning and rinsing and surface preparation solutions from electroplating or phosphating operations, vibratory deburring wastewater, alkaline and acid solutions used to clean metal parts or equipment.
- 2B. Does your facility accept wastes that are not listed in questions 1A, 2A, or 3A AND that contain less than 100 mg/l oil and grease AND that have any of pollutants listed below in excess of the values listed below? Yes No
- | | |
|----------|-----------|
| Cadmium | 0.2 mg/l |
| Chromium | 8.9 mg/l |
| Copper | 4.9 mg/l |
| Nickel | 37.5 mg/l |

Organics Wastes

Your facility accepts organics wastes if you answer yes to either of the following questions:

- 3A. Does your facility accept any of the following types of organics wastes? Yes No
Landfill leachate, contaminated groundwater clean-up from non-petroleum sources, solvent-bearing wastes, off-specification organic product, still bottoms, byproduct waste glycol, wastewater from paint washes, wastewater from adhesives and/or epoxies formulation, wastewater from chemical product operations, tank clean-out from organic non-petroleum sources.
- 3B. Does your facility accept wastes that are not listed in questions 1A, 2A, or 3A AND that contain less than 100 mg/l oil and grease AND that do not have concentrations of cadmium, chromium, copper, or nickel in excess of the values listed in question 2B? Yes No

Please check the appropriate subcategory for your facility:

- Subcategory A, Metals Treatment and Recovery
- Subcategory B, Oils Treatment and Recovery
- Subcategory C, Organics Treatment and Recovery
- Subcategory D, Multiple Wastestreams - Metals, Oils, and Organics
 - Subcategory D, Multiple Wastestreams - Metals and Oils
- Subcategory D, Multiple Wastestreams - Metals and Organics
- Subcategory D, Multiple Wastestreams - Oils and Organics

VI. Measurement of Pollutants

Wastewater discharged from your facility must be sampled and analyzed for all pollutants regulated under your subcategory. To determine which pollutants are regulated for your subcategory, refer to the Summary of Federal Pretreatment Standards - Centralized Waste Treatment Category or to 40 CFR part 437. The wastewater must be sampled and analyzed in accordance with 40 CFR 403.12(b)(5)(iii-viii), and copies of the wastewater analysis results must be included with this BMR when it is submitted. The results must indicate the analytical test method used for each parameter. All analyses must be performed by a certified laboratory.

To satisfy the requirements of this Baseline Monitoring Report, you must take at least one composite sample of wastewater discharged from your facility. It is recommended that you take more than one composite sample to fully characterize your waste. The composite samples must be taken over a 24-hour period or the period in which your facility discharges wastewater if it is less than 24 hours. The samples must be flow-proportioned if your facility has a flowmeter. Otherwise, time-proportioned samples may be used. Samples must be taken during periods typical of normal work cycles.

If your facility treats metal-bearing wastewater containing greater than 136 mg/l total cyanide, you must sample for cyanide in addition to other pollutants. As composite samples are not appropriate for cyanide analysis, you must take at least four grab samples to satisfy the sampling requirement. The samples must be spaced over 24 hours or over the period in which your facility discharges wastewater if it is less than 24 hours. The cyanide sampling results should be averaged to obtain a single value. Note that testing for cyanide must be done immediately downstream of cyanide treatment, before the cyanide-bearing waste is commingled with any other wastes.

If your facility accepts oily wastes, your sampling requirements include sampling for the pollutant bis-2-ethylhexyl phthalate. It is important to note that this pollutant is commonly found in plastics. Contamination of your wastewater sample, causing false positive results, may occur if your wastewater sample is exposed to plastic. If a composite sampler is used to obtain the wastewater sample, make sure it contains no plastic or tygon tubing - only teflon tubing is acceptable for preventing sample contamination. If grab samples are taken, they should be taken in an amber glass jar. Four grab samples for this pollutant are acceptable in lieu of a composite sample.

If your facility is a new source that has not yet begun discharging, estimates of pollutant values are allowed. However, within 90 days of commencement of discharge, the new source discharger must submit a 90 day compliance report on an additional BMR form.

Please complete the following table describing the sampling and analytical results accompanying this BMR

Sample Type	Sampling Date & Time	Sampling Location	Name & Address of Company Obtaining Sample	Name & Address of Laboratory Performing Analysis
Composite				
Grab #1				
Grab #2				
Grab #3				
Grab #4				

I certify that the sampling and analysis provided with this BMR is representative of normal work cycles and expected pollutant discharges.

Date: _____ Sign Name: _____

Print Name: _____

Job Title: _____

VII. Determination of Limitations and Compliance

Complete the following tables to determine concentration limits for your facility and compliance with the limitations. Note that concentration limitations must be adjusted to take into account any dilution flows such as cooling tower blowdown, boiler blowdown, hydrotesting water, and uncontaminated stormwater.

In order to be in compliance with the regulations, you must meet both daily maximum and monthly average discharge limitations. Compliance with monthly average discharge limitations is determined by averaging concentrations in all samples taken during a calendar month. If only one sample is taken during a month, the sample must meet all monthly average discharge limitations. In completing the attached samples, use the highest sample results from all of your samples to determine compliance with daily maximum limitations. Average all sample results taken within a monthly period to determine compliance with monthly average discharge limitations.

In filling out the tables, determine the daily maximum and monthly average pretreatment standards for your facility by using the appropriate values for your subcategory from the tables in the “Summary of Federal Pretreatment Standards - Centralized Waste Treatment Category.” If your subcategory is not regulated for a particular pollutant, simply put “None” in the box for that pretreatment standard.

Compliance Determination for Daily Maximum Pretreatment Standards

Pollutant	Daily Maximum Pretreatment Standard ⁶ (mg/l)	Dilution Factor ⁷	Modified Daily Maximum Pretreatment Standard ⁸ (mg/l)	Daily Sample Result ⁹ (mg/l)	In Compliance? ¹⁰ (Yes/No)
Antimony					
Arsenic					
Barium					
Cadmium					
Chromium					
Cobalt					
Copper					
Lead					
Mercury					
Molybdenum					
Nickel					
Selenium					
Silver					
Tin					
Titanium					
Vanadium					
Zinc					
Bis-2-ethylhexyl phthalate					
Carbazole					
o-Cresol					
p-Cresol					
2,3-Dichloroaniline					
Fluoranthene					
n-Decane					
n-Octadecane					
2,4,6-Trichlorophenol					

Compliance Determination for Monthly Average Pretreatment Standards

⁶List the daily maximum pretreatment standards for your facility's subcategory. If your subcategory does not include a pretreatment standard for a particular pollutant, write "None" in box for that pretreatment standard.

⁷The dilution factor is determined as $(F_T - F_D)/F_T$ where F_T is the total daily flowrate from your facility and F_D is the average daily flowrate of dilution flows including cooling tower blowdown, boiler blowdown, hyrotest waters, and uncontaminated rainwater. If there are no dilution flows at your facility, the dilution factor is 1.

⁸The daily maximum pretreatment standard times the dilution factor.

⁹The highest value on any single day. If you have multiple grab samples for one day, average the sample results to obtain the daily value. Be sure to use units of mg/l (parts per million) in this column.

¹⁰Compare the daily maximum pretreatment standard for each pollutant to the sample result for the pollutant.

Pollutant	Monthly Average Pretreatment Standard ¹¹ (mg/l)	Dilution Factor ¹²	Modified Monthly Average Pretreatment Standard ¹³ (mg/l)	Average Sample Result ¹⁴ (mg/l)	In Compliance? ¹⁵ (Yes/No)
Antimony					
Arsenic					
Barium					
Cadmium					
Chromium					
Cobalt					
Copper					
Lead					
Mercury					
Molybdenum					
Nickel					
Selenium					
Silver					
Tin					
Titanium					
Vanadium					
Zinc					
Bis-2-ethylhexyl phthalate					
Carbazole					
o-Cresol					
p-Cresol					
2,3-Dichloroaniline					
Fluoranthene					
n-Decane					
n-Octadecane					
2,4,6-Trichlorophenol					

Does your facility accept wastes for treatment that contain greater than 136 mg/l of total cyanide?

¹¹List the monthly average pretreatment standards for your facility's subcategory. If your subcategory does not include a pretreatment standard for a particular pollutant, write "None" in box for that pretreatment standard.

¹²The dilution factor is determined as $(F_T - F_D)/F_T$ where F_T is the total daily flowrate from your facility and F_D is the average daily flowrate of dilution flows including cooling tower blowdown, boiler blowdown, hyrotest waters, and uncontaminated rainwater. If there are no dilution flows at your facility, the dilution factor is 1.

¹³The monthly average pretreatment standard times the dilution factor.

¹⁴Average all sample results taken within a calendar month to obtain the monthly average value. If you have sample results from more than one month, enter the highest monthly average. Be sure to use units of mg/l (parts per million) in this column.

¹⁵Compare the monthly average pretreatment standard for each pollutant to the sample result for the pollutant.

Yes No

If the answer is no, go on to Section VII. If the answer is yes, complete the following tables:

Pollutant	Daily Maximum Pretreatment Standard (mg/l)	Daily Maximum Sample Result <i>immediately downstream of cyanide treatment</i> (mg/l)	In compliance? (Yes/No)
Total Cyanide	500		

Pollutant	Monthly Average Pretreatment Standard (mg/l)	Monthly Average Sample Result <i>immediately downstream of cyanide treatment</i> (mg/l)	In compliance? (Yes/No)
Total Cyanide	178		

VII. Multiple Wastestreams Subcategory

If your facility is not regulated under Subcategory D, Multiple Wastestreams, please skip this section and go on to Section VIII.

As a facility in the Multiple Wastestreams Subcategory, you must meet the following requirements:

1. Meet applicable Multiple Wastestream Subcategory discharge standards.
2. Submit an initial certification statement that is signed by a responsible corporate officer and includes the following information:
 1. List and description of the subcategories of wastes accepted for treatment at the facility.
 2. List and description of the treatment systems in-place at the facility and the conditions under which the treatment systems are operated for the subcategories of wastes accepted for treatment at the facility.
 3. Information and supporting data establishing that these treatment systems will achieve equivalent treatment.
3. Submit an annual periodic certification statement that is signed by a responsible corporate officer and certifies that the facility is operating its treatment systems to provide equivalent treatment as set forth in the initial certification. If your facility has modified its treatment systems, this certification must include a description of the modified systems and information and supporting data to establish that the modified system will achieve equivalent treatment.
4. Maintain and allow inspection of on-site compliance paperwork, including:
 1. A list and description of the subcategory wastes being accepted for treatment at the facility.
 2. A list and description of the treatment systems in-place at the facility, modifications to the treatment systems, and the conditions under which the systems are operated for the subcategories of wastes accepted for treatment at the facility.
 3. Information and supporting data establishing that these treatment systems will achieve equivalent treatment.
 4. A description of the procedures it follows to ensure that its treatment systems are well-operated and maintained.
 5. An explanation of why the procedures it has adopted will ensure its treatment systems are well-operated and maintained.

Initial Compliance Certification

The requirement to complete an initial compliance certification can be fulfilled by providing the information requested below. Attach additional sheets if necessary.

1. List and describe subcategories of waste (ie. metals waste, oily waste, organic waste) accepted for treatment:

- a. _____

- b. _____

- c. _____

2. List and describe treatment systems used for waste and the conditions under which they are operated:

Treatment System	Operating Conditions (examples: pH, temperature, recycle ratio, conditions under which carbon is changed out, types of chemicals added, quantities of chemicals added, process control parameters)

3. Attach additional information and supporting data establishing that the treatment systems in place are equivalent to treatment achieved by the systems on which discharge standards are based, that is:

- Metals waste: primary precipitation, liquid-solid separation, secondary precipitation, clarification, and sand filtration
- Cyanide waste: alkaline chlorination in a two-step process prior to metals treatment
- Oily waste: emulsion breaking/gravity separation and dissolved air flotation
- Organic waste: equalization and biological treatment

VIII. Statement of Compliance

An authorized representative of the company must review the following statement of compliance which must be certified to by a qualified professional.

I hereby certify that the EPA categorical pretreatment regulations which apply to this facility are currently being met. *Yes* *No*

If the answer to the above statement is *No*, then additional operations and maintenance measures and/or pretreatment to bring the company into compliance with the EPA categorical regulations must be proposed below. Anticipated completion dates must be provided.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

A detailed compliance schedule for the above changes must be attached. This schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the facility to meet the EPA categorical pretreatment standards (e.g. hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.). No increment shall exceed 9 months. Not later than 14 days following each date in the schedule and the final date for compliance of December 22, 2003, a progress report must be submitted which includes whether or not the increment of was made on such date and if not, the date on which the increment is expected to be completed, the reason for the delay, and the steps being taken to return the construction to the established schedule.

Qualified professional certification:

Date: _____

Signature of qualified professional: _____

Print name of qualified professional: _____

Qualifications as an Environmental Professional: _____

Company Name: _____

Company Address: _____

VIII. Certification - The following statement must be signed by an authorized company representative:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date: _____

Signature of authorized company representative: _____

Print name of authorized company representative: _____

Title of authorized company representative: _____

"Authorized company representative" means:

1. For a partnership: a general partner.
2. For a sole proprietorship: the proprietor.
3. For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

A duly authorized representative of one of the individuals described above may substitute if:

- a) the authorization is made in writing by one of the individuals described above,
- b) the authorization specifies either an individual or a position having responsibility for the overall operation of the permittee's facility, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company, and
- c) the written authorization is submitted.