



Chloride Reduction Workplan
(Please print or type)

I. Company Information

Name: _____ Tel: _____
Situs Address: _____ Zip: _____
Mailing Address: _____ Zip: _____
Industrial Wastewater Discharge Permit Number¹ _____
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. Description of Operations and Wastewater Sources

Provide a general description of the operations conducted at your facility: (i.e., chocolate manufacturing, vehicle repair, municipal pool, production of meat products, shampoo manufacturing, etc.)

Provide a list of sources of wastewater at your facility: (i.e., sanitizing cooking pans, janitorial cleaning, vehicle wash water, cooling tower blowdown, metal finishing rinse water, laundering, dishwashing, rinsing of fill equipment, etc.)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

If you choose to comply with a 100 mg/L chloride limit on the Industrial Wastewater Discharge Permit Number listed above, in lieu of implementing chloride reduction measures, please go directly to Section VII of this form and complete Sections VII and VIII.

¹One Chloride Reduction Workplan must be completed for every industrial wastewater discharge point to the sewer from your facility (i.e. if your facility has two Industrial Wastewater Discharge Permits, you must complete two Chloride Reduction Workplans).

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III. Wastestream Flow Information - Complete the following tables. Put information about wastewater streams that flow continuously in the first table, and information about intermittent wastewater streams in the second table.

Continuous Wastewater Sources:

Source of Wastewater	Time of Flow ²	Average Flowrate (gallons per minute)	Maximum Flowrate (gallons per minute)

Intermittent Wastewater Sources:

Source of Wastewater	Volume of Discharge (gallons)	Frequency of Discharge ³	Maximum Flowrate (gallons per minute)

² For example, 8 AM to 5 PM.

³ For example, once/week.

V. Identification of Chloride Reduction Measures

Chloride reduction measures must be identified for each type of wastestream at your facility that has a concentration of 100 mg/L or greater of chloride. Potential chloride reduction measures that **must** be considered for certain types of wastewater are listed below. You are welcome to consider other types of chloride reduction measures for these wastestreams. **For types of wastewater not listed below, your facility must propose other means of chloride reduction measures, such as management measures to reduce chloride, treatment, and/or hauling of the wastewater instead of sewer disposal.**

All wastestreams:

Product substitution – substitute non-chloride or lesser chloride-containing substances for materials used in manufacturing and/or operations at your facility.

Cooling tower and boiler blowdown/bleed:

No technologically and economically feasible reduction measures have been identified by the Districts.

*Swimming pool filter backwash, overflows, and drain water from an **outdoor** pool or spa:*

Addition of a stabilizer such as cyanuric acid or one of its forms to slow the rate of UV destruction of chloride. (Facilities with outdoor swimming pools and/or spas are required to implement this reduction measure or else propose alternative chloride reduction measures for Districts' approval.)

*Swimming pool filter backwash, overflows, and drain water from an **indoor** pool or spa:*

- 1) Use of a bromine-based disinfectant in place of a chlorine-based disinfectant. Bromine compounds used for pool disinfection are sold in two solid forms: a two-part system that uses a bromine salt dissolved in water and activated by a separate oxidizer; and a one-part stick or tablet that contains both bromine and an oxidizer and is dispensed by an erosion-type feeder. AND
- 2) Addition of a stabilizer such as cyanuric acid or one of its forms to slow the rate of UV destruction of chloride. (Facilities with indoor swimming pools and/or spas are required to implement both of these reduction measures or else propose alternative chloride reduction measures for Districts' approval. If bromine-based disinfectants can not be used in your pool or spa, you must attach an explanation as to why they can not be used.)

Laundry wastewater:

- 1) Use non-chlorine bleach.
 - 2) Do not use more than the recommended dosage of detergents.
- (You may also consider, but are not required to do so, discharging laundry wastewater to a graywater system that has been designed and installed according the California Graywater Standards. See http://www.owue.water.ca.gov/docs/Revised_Graywater_Standards.pdf)

Sanitizing:

- 1) Use non-chloride containing disinfectants (e.g., peroxides) or a UV disinfection system. The discharger is responsible for ensuring that any alternative disinfectant products meet appropriate health and safety regulations.
- 2) Do not use more than the recommended dosage of sanitizing agents.

Floor, vehicle, and equipment cleaning:

- 1) Use non-chlorine bleaches where bleaches are needed.
- 2) Do not use more than the recommended dosage of detergents.
- 3) No not use detergents containing chlorine bleaches.
- 4) Where appropriate, use cleaning solutions more than once instead of disposing after each use (i.e., if mop bucket solution is not too dirty, consider using it again.)

VI. Evaluation of Potential Chloride Reduction Measures

Your facility is only required to implement chloride reduction measures that are both technologically and economically feasible. A measure is technologically feasible if it can be implemented or is being implemented at similar facilities. It is not technologically feasible if it can not be implemented, or is unsafe to implement. For example, use of an alternative sanitizing agent is not technologically feasible if the Health Department requires use of certain chloride- or chlorine- containing sanitizing agent. Use of wastewater to water landscaping under a graywater system is not technologically feasible if the facility does not have landscaping to be watered. The analysis of technological feasibility should include consideration of worker and health and safety issues. The burden of evaluating all chloride reduction measures falls upon the discharger; the Districts are not responsible for any adverse health, safety, or equipment condition impacts from the use of chloride reduction measures.

A measure is economically feasible if the cost to implement the measure is less than \$5.20 per pound of chloride removed. This is the projected cost for the Districts to remove a pound of chloride from wastewater at the Saugus and Valencia Water Reclamation Plants that serve the Santa Clarita area. Additionally, a measure can be deemed to be economically infeasible if implementation of the measure would cause financial hardship to a business. If you believe that implementation of a measure will cause your business financial hardship, detailed information must be submitted to the Districts regarding the financial status of your company and the specific impact of additional costs.

Please list any calculations you make regarding economic feasibility below, or attach additional sheets as needed. Note that you are not required to make these calculations for chloride reduction measures that you intend to implement, but must make the calculations to justify **not** using chloride reduction measures that are otherwise feasible.

VII. Implementation of Chloride Reduction Measures

Choose one of the following options:

θ In lieu of implementing chloride reduction measures for this outfall we choose to have a discharge limitation of 100 mg/L chloride established for the Industrial Wastewater Discharge Permit Number listed on the first page of this form.

θ I hereby certify that possible chloride reduction measures for this sewer connection have been considered, and all technologically and economically feasible chloride reduction measures have been or will be implemented as listed below. I agree to accept the chloride reduction measures as enforceable conditions of the Industrial Wastewater Discharge Permit Number listed on the first page of this form.

List chloride reduction measures that have been implemented.

Source of Wastewater	Chloride Reduction Measure	Date Implemented

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List chloride reduction measures that will be implemented. Districts' approval is required for implementation dates later than June 30, 2003.

Source of Wastewater	Chloride Reduction Measure	Date to be Implemented

List chloride reduction measures that will be not implemented.

Source of Wastewater	Chloride Reduction Measure	Reason for Not Implementing

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VIII. Certification

A registered professional engineer must certify the preparation of this Workplan. Note that certification by a registered engineer is not necessary if your facility has chosen to opt for a 100 mg/L chloride limit in lieu of implementation of chloride reduction measures for this outfall.

Registered engineer certification:

AFFIX STAMP HERE

Date: _____

Signature of registered engineer: _____

Print name of registered engineer: _____

Registration number: _____

Company Name: _____

Company Address: _____

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 to the Sanitation Districts.