The City of SAN DIEGO

Guaranteed Water for Industry Program
Application Form

The Guaranteed Water for Industry Program provides eligible manufacturing, research and development, and industrial facilities with a pathway to obtain certification pursuant to the San Diego Municipal Code and the City's Water Shortage Contingency Plan.

1. Property Information

Company Name _____ Email _____

Street Number _____ Street Name _____ Suffix (Unit, Suite No.) _____ City _____ State _____ Zip Code _____

Account Number(s) that serve property: ☐☐☐☐☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐☐☐☐☐☐☐

Existing Recycled Water Account(s): ☐☐☐☐☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐☐☐☐☐☐☐

2. To be eligible for certification under the Guaranteed Water for Industry Program, applicants must satisfy one of the following pathways: (Check option A or B as applicable)

Option A: ☐

If the manufacturing facility, research and development laboratory, or other eligible industrial operation is located within the City of San Diego, (except within that portion of Otay Mesa served by the Otay Water District), the applicant may qualify for certification if the following requirements are satisfied:

(1) The applicant has implemented all applicable Best Management Practices identified by the City Manager. The applicable Best Management Practices for potable process water conservation are specific to broad industry clusters as listed in the attached document.

(2) The customer is in compliance with the California Plumbing Code, title 24, part 5 of the California Code of Regulations, including using all applicable water-conserving fixtures and fittings on the premises to the fullest extent possible.

Option B: ☐

If a customer is currently an approved user of recycled water in the northern part of the City, the following requirements must be satisfied:

(1) The customer uses reclaimed water on its premises to the fullest extent possible, including in landscape irrigation and evaporative cooling, where applicable.

(2) The customer complies with the California Plumbing Code, Title 24, Part 5 of the California Code of Regulations, including using all applicable water-conserving fixtures and fittings on the premises to the fullest extent possible.

NOTE: As of January 1, 2024, new applications for connections to the City's Recycled Water Program will NOT be accepted in the northern part of the City due to Pure Water requirements. See the Public Utilities Department recycled-water fact sheet for more information.

Certification

By signing below, I certify that the information provided above is true and correct to the best of my knowledge, and the property listed above complies with all applicable requirements established by the Guaranteed Water for Industry Program, the San Diego Municipal Code, and the City's Water Shortage Contingency Plan. Certification under the Guaranteed Water for Industry Program does not relieve the applicant from compliance with future emergency drought measures, regulations, or restrictions adopted by the City, state law, or successor regulations.

Responsible Party: _____ _____ _____ _____

Name and Title (print) Signature Telephone Date

Divian Rubi Contreras
Business Development Officer
Email: DRContreras@sandiego.gov (619)533-6199
1200 Third Avenue, Suite 1400, San Diego, CA 92101

This information is available in alternative formats upon request

Best Management Practices for Potable Process Water Conservation

Aerospace & Defense – As Applicable

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.



OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers



OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop



General Operations

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

Biotechnology & Medical Devices – As Applicable

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.



OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers



OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop



OR:

F-4 Use process water to replace potable water for quenching pure steam generator blow-down water





General Operations

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

Electronics & Telecommunications – As Applicable

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.



OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers



OR:

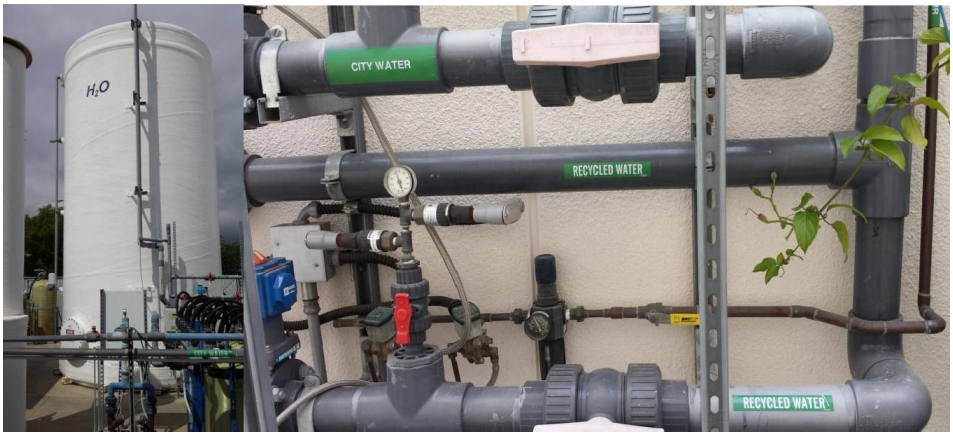
F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop to at least eight (8) cycles (savings = 50%)



Product Rinsing

R-1 Collect all product rinse water that is suitable for re-use, treat as needed, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.





General Operations

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

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Food & Beverage Manufacturing – As Applicable

Beer Brewing

B-1 Use flow meters for brewing processes such as lautering/sparging to eliminate unnecessary excess at completion of the process. (savings = 2 gallons/barrel or 6%)




B-2 Correctly size Cold Liquor Tank to fully recover cold water used to chill the wort at the end of the brewing process, so that this water can be used to make-up the subsequent brew. The system shall use automated controls and the heat exchanger shall be properly maintained to ensure maximized efficiency (savings = 7 gallons/barrel, or 23%)

B-3 Use a closed loop cooling system (such as a glycol reservoir with chiller system) in lieu of single pass or "once through" cooling systems to cool fermentation tanks.

(savings = 90%)

Beverage Packaging (canning, bottling, kegging)

P-1 Use a recirculation loop on bottle filler vacuum pump to recover water and re-use elsewhere in the system (savings = 3 to 8 GPM, or 4,320GPD – 11,520 GPD)



P-2 Use automated solenoid valves to control flow of bottle rinsers to shut them off when bottling line in not running

Cleaning

C-1 Use effective "built" cleaning products that are designed to remove solids/soil in fermentation or other beverage production tanks using the least amount of water

C-2 Use a hot water sanitation/recirculation tank/system.

C-3 Use a fully automated and optimized Clean-in-Place (CIP) reuse cleaning system with pH, temperature and level sensors (savings = 30%)



C-4 Properly size CIP tanks for efficient water reuse and recovery

C-5 Use a final rinse water recovery and reuse setup in the CIP system for pre-rinse

C-6 Set up CIP system to use multiple program modes for optimized water usage of each area (filter, cellar tanks, packaging equipment, etc.)

C-7 Optimize rinse water procedures for different sized kegs/containers

C-8 Recover final rinse water for pre-rinse of kegs/containers or use a high pressure detergent cleaning system for keg sanitation (savings = 50%)



C-9 Optimize detergent concentration and temperature to minimize rinse water usage.

C-10 Use dry cleaning processes (use of scrapper and brushes) whenever possible.

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.



OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers or other uses



OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop to at least eight (8) cycles (savings = 50%).



General Operations

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

Alternative Compliance and Unspecified Manufacturing

U-1 A manufacturer operating an industrial facility which does not include any of the equipment or processes depicted above may, as an alternative, employ permanent alternative water conservation measures which can be demonstrated to achieve a 20% water use reduction, averaged over a 2-month period, compared to a baseline measure.

U-2 A manufacturer operating an industrial facility which is not classified within any of the industry clusters listed above may, as an alternative, employ permanent alternative water conservation measures which can be demonstrated to achieve a 20% water use reduction, averaged over a 2-month period, compared to a baseline measure.

LEGAL AUTHORITY

The Guaranteed Water for Industry Program is administered pursuant to:

- San Diego Municipal Code, Chapter 6, Article 7, Division 38.
- SDMC Sections 67.3804(g) and 67.3804(h), as amended.
- The City of San Diego Water Shortage Contingency Plan.
- California Plumbing Code, Title 24, Part 5 of the California Code of Regulations.

Program requirements and eligibility determinations are subject to applicable City ordinances, administrative regulations, and future amendments.

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