

Application Requirements for Trash Full Capture System Certification (Updated September 2022)

In accordance with the Trash Provisions¹ the State Water Resources Control Board (State Water Board) Executive Director or designee certifies trash full capture systems (Systems).

How to Apply for Certification of a New System

To apply for certification of a new System, the applicant shall submit an application in accordance with the requirements below. The application shall be submitted electronically to Mr. Leo Cosentini at Leo.Cosentini@waterboards.ca.gov. Mr. Cosentini is also available to answer questions either by email or by telephone at (916) 341-5524.

Upon determining that an application is complete, the system meets the definition of a full capture system,² and the application has been approved for vector control accessibility by the Mosquito Vector Control Association of California (see below), the Executive Director or designee will certify the System.

Upon certification, State Water Board staff will notify the applicant and update both the *Executive Director Designee Certification of Trash Full Capture Systems* and the *Certified Trash Full Capture Systems Available to the Public* lists as appropriate for posting to the State Water Board's Trash Implementation Program webpage.

Certification of a System does not constitute an endorsement by the State Water Board. The Executive Director reserves the right to decertify any System for reasons including, but not limited to, that the System has been discontinued, has been found to not trap trash in accordance with the Trash Provisions, no longer has Mosquito Vector Control

¹ Amendment to the Water Quality Control Plan for Ocean Waters of California to Control Trash (Ocean Plan) and Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, And Estuaries of California adopted by the State Water Board located on the Statewide Water Quality Control Plans for Trash webpage at:
https://www.waterboards.ca.gov/water_issues/programs/trash_control/documentation.html.

² A full capture system traps all particles that are 5 millimeters or greater and has a design treatment capacity that is either: a) of not less than the peak flow rate resulting from a one-year, one-hour storm in the sub-drainage area, or b) appropriately designed to carry at least the same flows as the corresponding storm drain.

Association of California approval, or otherwise does not satisfy the requirements of the Trash Provisions or Executive Director certification.

Project-Specific Application Requirements

A project-specific System is a System that is custom designed and is not intended for sale to the public. Project-specific applications follow the same certification process as described above, but the application requirements are somewhat different. For assistance or to obtain a copy of the project-specific application, please contact Leo Cosentini at Leo.Cosentini@waterboards.ca.gov or (916) 341-5524.

Vector Control Accessibility

According to the California Health and Safety Code, California landowners are legally responsible to abate (eliminate the source of) a public nuisance arising from their property, including mosquitoes. Mosquito vector control districts have substantial authority to access public and private property, inspect known or suspected sources of mosquitoes, abate mosquito sources, and charge the landowner for work performed and/or charge fees if a landowner is unwilling or unable to address a mosquito source arising from their property.

If not designed properly, a System may impede the mosquito vector control district's ability to (1) visually inspect the System and/or storm vault for mosquito breeding, and (2) apply the appropriate chemical treatment. Moreover, some Systems may create a habitat³ for mosquitoes. Prior to installation of any System, the local mosquito vector control district should be contacted to ensure the installation conforms to the local district's visual inspection, treatment, and vector breeding minimizing guidelines. The Mosquito Vector Control Association of California may also be contacted via email at Trashtreatment@mvcac.org.

Confidentiality

Applicants who include specific proprietary information that should not be publicly disclosed shall include a *Confidentiality Justification Letter* that clearly identifies the privileged or confidential information and explains why the information should not be publicly disclosed. In general, the State Water Board considers proprietary information confidential when it consists of trade secrets (e.g., manufacturing processes and/or materials that are not patent protected). If the confidentiality justification is approved, the application that is available to the public will not display the confidential information. Applicants are encouraged to contact Leo Cosentini prior to submitting their *Confidentiality Justification Letter*. Applications submitted with *Confidentiality*

³ For a System that causes standing water that may cause mosquito breeding, it is recommended, but not required, that the manufacturer include in the application either an optional sealed manhole cover or a solid (under-manhole cover) insert. Some municipalities, in conjunction with their local mosquito vector control districts, may require the installation of sealed manhole covers or solid inserts to reduce mosquito habitat for such Systems that cause standing water.

Justification Letters that are denied shall be returned to the applicant.

Submittal Requirements

The submittal for certification shall be consistent and properly formatted to address each of the requirements below. If any requirement is not applicable, include the requirement and indicate N/A.

1. **Cover Letter.** A cover letter shall be signed and dated by the applicant and shall address the following:
 - a. The System name⁴ and general description;
 - b. The name of the applicant or, if the System is owned by a corporation, the name and position of the highest corporate officer (e.g., Chief Executive Officer or president). If the application is signed by the owner's authorized representative (e.g., Vice-President, Department Director, etc.), identify the name and position of the authorized representative. The contact information for the System owner and authorized representative shall include the mailing address, email address, and telephone number;
 - c. The applicant's webpage address where the System can be found on the applicant's website;
 - d. The location of the System manufacturing site;
 - e. A brief summary of any field or laboratory testing results that demonstrates the System functions as described within the application;
 - f. A brief summary of the System limitations, and operational, sizing, and maintenance considerations;
 - g. A description or list of locations, if any, where the System has been installed for the purposes of trapping trash. Include the name and contact information of as many as three municipalities purchasing the System;
 - h. If the System is designed to operate outside of a typical stormwater catch basin and is able to trap trash from high flows, indicate a preference to be listed as a high flow capacity System on the State Water Board's website; and
 - i. The application shall be signed by the owner or authorized representative (not the technical or sales representative) and include the following certification:

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 that manage the system

⁴ When a certified System's name changes, identify the original applicant and original System name and ensure the proper relabeling of all System photos, graphics, illustrations, etc.

or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, 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.

2. **Table of Contents.** The Table of Contents shall be consistent with the six sections (sections 3-8) and corresponding subsections below. Appendices, and corresponding page numbers may be added.
3. **Physical Description.** For each configuration of the System, the physical description shall provide or address the following:
 - a. **Trash Capture:** Describe how the System traps trash particles 5-millimeters or greater. Unless the System is designed to self-clean the screen or filter area, screens and filters sizes must be between 4.5 to 5 millimeters. Expandable filters must be sized between 4.5 to 5 millimeters at peak hydraulic capacity at 50 percent screen blinding;
 - b. **Peak Flows/Trash Capture Volumes:** Explain how the System is sized for varying peakflow rates and trash capture volumes;
 - c. **Hydraulic Capacity:**
 - 1) For all standard sizes, provide a table of the hydraulic capacity for the conditions of no screen blinding and zero trash capture in the System and at several intervals of screen blinding (including 50 percent), or trash capture volume.
 - 2) Provide the methods or equations used to determine hydraulic capacity. If equations are used, provide one example; and
 - 3) If the System has alternative configurations that impact the hydraulic capacity, include a table of the hydraulic capacity for each System configuration.
 - d. **Comparison Table:** For all standard sizes, provide a table that includes the peak flow rates, and recommended maximum trash capture volume;
 - e. **Design Drawings:** Provide design drawings for all standard System sizes and, if any, alternative configurations (e.g., deflector screen, filter media, etc.). Design drawings should depict the System from the top, side, and three-dimensional perspective. If the System includes features for vector control accessibility, drawings should include the vector control accessibility features;
 - f. **Alternative Configurations:** If the System includes two or more configurations, explain the purpose of each configuration and any mandatory installation conditions;
 - g. **Internal Bypass:** If the System has an internal bypass, explain how the bypass functions to only allow a bypass of flows exceeding the peak flow rate;

- h. **Previously Trapped Trash:** Explain the condition(s) under which the System re-introduces previously trapped trash (e.g., via the internal bypass);
 - i. **Calibration Feature:** If the System includes an adjustable calibration feature, describe how the calibration feature functions;
 - i. **Photos:** If any, provide the System installation photographs;
 - j. **Material Type:** Provide each material and material grade used to construct the System (e.g., stainless steel, plastic, etc.); and
 - k. **Design Life:** Provide the estimated design life.
- 4. Installation Guidance.** The installation guidance shall include the following:
- a. Standard System installation procedures including calibration instructions if applicable;
 - b. Description of System installation limitations and/or non-standard System installation procedures; and
 - c. Methods for diagnosing and correcting installation errors.
- 5. Operation and Maintenance Information.** Operation and maintenance information shall include the following:
- a. Inspection procedures and frequency considerations;
 - b. Description of maintenance frequency considerations related to the System's hydraulic capacity at various levels of trash capture volumes (see section 3, above);
 - c. Maintenance procedures, including procedures to clean the trash capture screen;
 - d. Essential equipment and materials for proper maintenance activities;
 - e. Description of the effects of deferred maintenance on System structural integrity, performance, odors, etc.; and
 - f. Repair procedures for the System's structural and screening components.
- 6. Vector Control Accessibility.** Vector control accessibility information shall include the following:
- a. The date the System application was submitted for vector control accessibility design verification via email to the Mosquito Vector Control Association of California at Trashtreatment@mvcac.org. The Mosquito Vector Control Association of California has prepared a video (<https://vimeo.com/462828578/5ca5a8d9d2>) providing information regarding vector control accessibility;
 - b. The description and/or video that demonstrates how mosquito vector control personnel can readily access the bottom of the storm water vault and/or System for visual observation and mosquito treatment; and

- c. The Mosquito Vector Control Association of California Letter of Verification as an attachment to the application when it becomes available. This letter shall verify that the System design allows full visual access for presence of standing water and treatment of mosquitoes when necessary. The Table of Contents shall note the Mosquito Vector Control Association of California approval letter.

7. Reliability Information. Reliability information shall include the following:

- a. Estimated design life of System components before major overhaul;
- b. Warranty information; and
- c. Customer support information.

8. Field and Laboratory Testing Information and Analysis. Field and laboratory testing information shall include the following:

- a. For Systems with 5-millimeter screening, any available field or laboratory testing information that demonstrates the System functionality and performance; and
- b. If the System does not include a 5-millimeter screen, adequate field or laboratory testing information that demonstrates the System captures trash particles of 5 millimeters or greater.