

Attachment A to Resolution No. R4-2018-005

**Amendment to the Water Quality Control Plan – Los Angeles Region to Revise the
Revolon Slough and Beardsley Wash Trash TMDL**

Amendments:

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**Chapter 7. Total Maximum Daily Loads (TMDLs)
Revolon Slough and Beardsley Wash Trash TMDL**

This TMDL was adopted by:

The Regional Water Quality Control Board on June 7, 2007.

This TMDL was approved by:

The State Water Resources Control Board on December 4, 2007.
The Office of Administrative Law on January 24, 2008.
The U.S. Environmental Protection Agency on February 27, 2008.

This TMDL was revised by:

The Regional Water Quality Control Board on June 14, 2018.

The revisions were approved by:

The State Water Resources Control Board on May 21, 2019.
The Office of Administrative Law on April 2, 2020.
The U.S. Environmental Protection Agency on May 6, 2020.

The elements of the TMDL are presented in Table 7-24.1 and the Implementation Plan in
Tables 7-24.2a and 7-24.2b.

Table 7-24.1 Revolon Slough and Beardsley Wash Trash TMDL: Elements

| Element | Revolon Slough and Beardsley Wash Trash TMDL |
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| <i>Problem Statement</i> | Current levels of trash in Revolon Slough and Beardsley Wash exceed water quality objectives and are impairing beneficial uses. Relevant water quality objectives include those for “Floating Material” and “Solid, Suspended, or Settleable Materials.” The following designated beneficial uses are impacted by trash: water contact recreation (REC1); non-contact water recreation (REC2); warm freshwater habitat (WARM); wildlife habitat (WILD); wetland habitat (WET). |
| <i>Numeric Target</i> <i>(interpretation of the narrative water quality objective, used to calculate the load allocations)</i> | Zero trash in Revolon Slough and Beardsley Wash. |
| <i>Source Analysis</i> | Litter from adjacent land areas, roadways and direct dumping and deposition are sources of trash to Revolon Slough and Beardsley Wash. Point sources such as storm drains are also sources of trash discharged to Revolon Slough and Beardsley Wash. |
| <i>Loading Capacity</i> | Zero, as defined in the Numeric Target. |
| <i>Waste Load Allocations (for point sources)</i> | Waste Load Allocations (WLAs) are assigned to the California Department of Transportation (Caltrans); Permittees and Co-Permittees of the Ventura County Municipal Separate Storm Sewer System (MS4) Permit, including Ventura County, the Ventura County Watershed Protection District, the City of Camarillo, and the City of Oxnard; and local landowners. Additional responsible entities may be identified in the future under Phase 2 of the USEPA Stormwater Permitting Program, or other applicable regulatory programs. WLAs are zero trash discharged from MS4s into Revolon Slough and Beardsley Wash. |
| <i>Load Allocations (for nonpoint sources)</i> | Load Allocations (LAs) are assigned to land owners and agencies in the vicinity of Revolon Slough and Beardsley Wash, including the County of Ventura, Ventura County Watershed Protection District, City of Camarillo, City of Oxnard, and Agricultural entities in the Revolon Slough and Beardsley Wash subwatersheds. LAs are zero trash, defined as no trash immediately following each assessment and collection event consistent with an established Minimum Frequency of Assessment and Collection Program (MFAC Program) where the MFAC Program is established at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Additional responsible entities may be identified in the future under applicable regulatory programs. |
| <i>Implementation</i> | Implementation of the trash TMDL for Revolon Slough and Beardsley Wash includes structural and non-structural best management practices (BMPs) and MFAC Programs to address point and nonpoint trash sources. Point Sources |

WLAs shall be implemented through MS4 permits and via the authority vested in the Executive Officer by sections 13267 and/or 13383 of the Porter-Cologne Water Quality Control Act (Water Code section 13000 et seq.).

Ventura County MS4 Permittees

Ventura County MS4 Permittees may comply with WLAs by (1) installing certified full capture systems on conveyances that collect drainage from priority land use areas as defined in Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California ("Trash Amendments") and discharge to Revolon Slough and Beardsley Wash or (2) implementing an MFAC program in conjunction with BMPs. Irrespective of these two general approaches to implementing the WLAs, Ventura County MS4 Permittees may comply with the WLAs in any lawful manner to achieve full capture system equivalency as defined in the Trash Amendments.

1. Ventura County MS4 Permittees may comply with the final WLA by installing adequately sized and maintained full capture systems certified by the Executive Officer of the Los Angeles Water Board or the Executive Director of the State Water Board. A full capture system, at a minimum, consists of any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one-year, one-hour, storm in the sub-drainage area. The rational equation is used to compute the peak flow rate:

$Q = C \times I \times A$, where

Q = design flow rate (cubic feet per second, cfs);

C = runoff coefficient (dimensionless);

I = design rainfall intensity (inches per hour); and

A= subdrainage area (acres).

Ventura County MS4 Permittees that choose to comply via installation of full capture systems must demonstrate a phased implementation in priority land use areas over an 8-year period until the final WLA of zero is attained. Zero will be deemed to have been met if full capture systems have been installed on all conveyances addressing priority land use areas that discharge to Revolon Slough and Beardsley Wash.

2. Ventura County MS4 Permittees may propose an MFAC program in conjunction with BMPs to the Los Angeles Water Board for incorporation into the relevant NPDES permit. The MFAC/BMP program must include requirements equivalent to those set forth for Nonpoint Sources. Agencies that are responsible for both point and nonpoint sources will be deemed in compliance with both the WLAs and LAs if an MFAC/BMP program, approved by the Executive Officer, is implemented.

Caltrans

Caltrans may comply with WLAs by installing, operating, and maintaining any combination of full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls for all storm drains that capture runoff from significant trash generating areas to achieve full capture equivalency as defined by the Trash Amendments.

Nonpoint Sources

LAs shall be implemented through a conditional waiver of waste discharge requirements, waste discharge requirements, or another appropriate order of the Los Angeles Water Board in accordance with the statewide Policy for Implementation and Enforcement of the Nonpoint Source Pollution Control Program.

(1) Nonpoint source dischargers may achieve compliance with the LAs by implementing an MFAC/BMP program approved by the Executive Officer. Responsible jurisdictions that are responsible for both point and nonpoint sources will be deemed in compliance with both the WLAs and LAs if an MFAC/BMP program, approved by the Executive Officer, is implemented. The MFAC/BMP Program shall, to the satisfaction of the Executive Officer, meet the following criteria:

- a) The MFAC/BMP Program includes an adequate initial minimum frequency of trash assessment and collection and suite of structural and/or nonstructural BMPs. The MFAC/BMP program shall include collection and disposal of all trash found in the water and on the shoreline. Responsible entities shall implement an initial suite of BMPs based on current trash management practices in land areas that are found to be sources of trash to Revolon Slough and Beardsley Wash. For Revolon Slough and Beardsley Wash, the initial minimum frequency shall be set as follows:
 1. Twice per month on Revolon Slough and its adjacent land areas at Wood Road (the end of the concrete-lined channel), as defined in the Executive Officer approved Trash Monitoring and Reporting Plan (TMRP).
 2. Twice per month on the water, shoreline and channels of Beardsley Wash and Revolon Slough in areas under the jurisdiction of the County of Ventura, and agricultural lands.
 3. Twice per month at outlets on north side of Camarillo Hills Drain between Las Posas Rd. and Wood Rd.
 4. Monthly on Las Posas Estate Drain between Central Ave. and the 101 Freeway.
 5. Monthly at the inlet to the North Ramona Place Drain debris basin.
 6. Monthly at inlet to Beardsley Wash at Wright Road and the adjacent land areas, as defined

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| | <p>in the Executive Officer approved TMRP.</p> <p>7. All Drains listed above will also be cleaned within one week of every storm event greater than 1 inch of rain.</p> <p>b) The MFAC/BMP Program includes reasonable assurances that it will be implemented by the responsible entities.</p> <p>c) The MFAC/BMP Program includes a TMRP and a requirement that the responsible entities will self-report any non-compliance with its provisions. The results and report of the TMRP must be submitted to Los Angeles Water Board on an annual basis.</p> <p>d) MFAC protocols may be based on SWAMP protocols for rapid trash assessment, or alternative protocols proposed by dischargers and approved by the Executive Officer.</p> <p>e) Implementation of the MFAC/BMP program should include a Health and Safety Plan to protect personnel. The MFAC/BMP program shall not require responsible entities to access and collect trash from areas where personnel are prohibited.</p> <p>The Executive Officer may approve or require a revised assessment and collection frequency:</p> <p>(a) To prevent trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections;</p> <p>(b) To reflect the results of trash assessment and collection;</p> <p>(c) If the amount of trash collected does not show a decreasing trend, where necessary, such that a shorter interval between collections is warranted; or</p> <p>(d) If the amount of trash collected is decreasing such that a longer interval between collections is warranted.</p> <p>With regard to (a), (b) or (c), above, the Executive Officer is authorized to allow responsible entities to implement additional structural or non-structural BMPs in lieu of modifying the monitoring frequency.</p> <p>At the end of the implementation period, a revised MFAC/BMP program may be required if the Executive Officer determines that the amount of trash accumulating between collections is causing nuisance or otherwise adversely affecting beneficial uses.</p> <p>(2) Alternatively, responsible entities may propose, or the Los Angeles Water Board may impose, an alternative program, provided the program is consistent with the assumptions and requirements of the reductions described in Table 7-24.2b.</p> |
| <p>Monitoring and Reporting Plan</p> | <p>Responsible jurisdictions and entities will develop a TMRP for Executive Officer approval that describes the methodologies that will be used to assess and monitor trash in Revolon Slough and Beardsley Wash and/or within responsible jurisdiction land areas.</p> |

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| | <p>The TMRP shall include a plan to establish the trash Baseline WLAs for non-Caltrans entities, or an alternative to the default trash baseline for Caltrans to prioritize installation of full capture devices. The default trash baseline WLA for Caltrans is 6677.4 gallons per square mile per year.</p> <p>Requirements for the TMRP shall include, but are not limited to, assessment and quantification of trash collected from the surfaces and shoreline of Revolon Slough and Beardsley Wash or from responsible jurisdiction land areas. The monitoring plan shall provide details of the frequency, location, and reporting of trash monitoring. Responsible jurisdictions and entities shall propose a metric (e.g., weight, volume, pieces of trash) to measure the amount of trash in Revolon Slough and Beardsley Wash and on the land area surrounding Revolon Slough and Beardsley Wash, as defined in the TMRP.</p> <p>The TMRP shall also include a process for evaluation of effectiveness of the MFAC/BMP program to prevent trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections, proposals to enhance BMPs, and a revised MFAC for Executive Officer review.</p> <p>Responsible jurisdictions and entities may coordinate their TMRP activities for Revolon Slough and Beardsley Wash.</p> |
| <i>Margin of Safety</i> | Zero is a conservative numeric target which contains an implicit margin of safety. |
| <i>Seasonal Variations and Critical Conditions</i> | Discharge of trash from point sources occurs primarily during or shortly after a major rain event. Discharge of trash from nonpoint sources occurs during all seasons, but can be increased during or shortly after high wind events, which are defined as periods of wind advisories issued by the National Weather Service. |

**Table 7-24.2a Revolon Slough and Beardsley Wash Trash TMDL: Implementation Schedule
Point Sources**

| Task No. | Task | Responsible Jurisdiction | Date |
|-----------------|---|---|--|
| 1 | Submit Trash Monitoring and Reporting Plan, including a plan for defining the trash baseline WLA and a proposed definition of "major rain event". | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | September 6, 2008 |
| 2 | Implement Trash Monitoring and Reporting Plan. | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | 6 months from receipt of letter of approval from Los Angeles Board Executive Officer |
| 3 | Submit results of Trash Monitoring and Reporting Plan, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other measures to attain the required trash reduction. | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | 2 years from receipt of letter of approval for the Trash Monitoring and Reporting Plan from Los Angeles Board Executive Officer. |
| 4 | Installation of Full Capture Systems or other measures to achieve 20% reduction of trash from Baseline WLA. | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | March 6, 2012 |
| 5 | Installation of Full Capture Systems or other measures to achieve 40% reduction of trash from Baseline WLA. | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | March 6, 2013 |
| 6 | Evaluate the effectiveness of Full Capture Systems or other measures, and reconsider the WLA. | Los Angeles Board. | March 6, 2013 |
| 7 | Installation of Full | City of Camarillo; City of Oxnard; | March 6, 2014 |

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| | Capture Systems or other measures to achieve 60% reduction of trash from Baseline WLA. | Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | |
| 8 | Installation of Full Capture Systems or other measures to achieve 80% reduction of trash from Baseline WLA. | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | March 6, 2015 |
| 9 | Installation of Full Capture Systems or other measures to achieve 100% reduction of trash from Baseline WLA. | City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances | March 6, 2016 |

* Compliance with percent reductions from the Baseline WLA will be assumed wherever full capture systems are installed in corresponding percentages of the conveyance discharging to Revolon Slough and Beardsley Wash that collect drainage from priority land use areas.

**Table 7-24.2b Revolon Slough and Beardsley Wash Trash TMDL:
Implementation Schedule
Minimum Frequency of Assessment and Collection Program ***

| Task No. | Task | Responsible Entities | Date |
|-----------------|---|--|--|
| 1 | Submit MFAC/BMP Program and Trash Monitoring and Reporting Plan. | | September 6, 2008 |
| 2 | Implement MFAC/BMP Program. | City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners | Six months from approval of TMRP from Los Angeles Board Executive Officer. |
| 3 | Submit annual TMRP reports including proposal for revising MFAC/BMP for Executive Officer approval. | City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners | March 6, 2010, and annually thereafter. |
| 4 | Reconsideration of Trash TMDL based on evaluation of effectiveness of MFAC/BMP program. | Los Angeles Board. | March 6, 2013 |
| 5 | Submit revised MFAC/BMP Program and Trash Monitoring and Reporting Plan | City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners | Three months from the effective date of the revisions to the TMDL |
| 6 | Conduct a yearly analysis of MFAC/BMP Program data and based on the results, determine whether there is a need to reconsider the TMDL to include additional implementation requirements for nonpriority land use areas. | Los Angeles Board | March 6, 2020 |

* At Task 2, all responsible entities must be attaining the zero trash target after each required trash assessment and collection event. At Task 3, all responsible entities must demonstrate full compliance and attainment of the zero trash target's requirement that trash is not accumulating in deleterious amounts between the required trash assessment and collection events. Based on responsible entities' monitoring reports, the Executive Officer may adjust the minimum frequency of assessment and collection as necessary to ensure compliance between the required trash assessment and collection events.