

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

3737 Main Street, Suite 500
Riverside, CA 92501-3348
(951) 782-4130

[Regional Board Website](https://www.waterboards.ca.gov/santaana) (<https://www.waterboards.ca.gov/santaana>)

ORDER R8-2026-0041

ORDER INFORMATION

Status:	TENTATIVE
Program:	Site Cleanup Program
Discharger(s):	Lockheed Martin Corporation
Facility:	Former Lockheed Martin Beaumont Site 2, Laborde Canyon
County:	Riverside County
Prior Order(s):	R8-2018-0074; R8-2023-0040

CERTIFICATION

I, ERIC T. LINDBERG, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on December 11, 2026.

Eric T. Lindberg, PG CHG
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA BASIN REGION

ORDER R8-2026-0041

AMENDMENT TO WASTE DISCHARGE REQUIREMENTS ORDER R8-2018-0074, AS
AMENDED BY ORDER R8-2023-0040
FOR
FULL SCALE BIOBARRIER REPLENISHMENT
AT THE FORMER LOCKHEED MARTIN BEAUMONT SITE 2, LABORDE CANYON
BEAUMONT, RIVERSIDE COUNTY

FINDINGS

The Santa Ana Regional Water Quality Control Board (Santa Ana Water Board) hereby finds as follows:

1. The Department of Toxic Substances Control is overseeing the cleanup and abatement of pollutants at the Former Lockheed Martin Beaumont Site 2, Laborde Canyon property located at 96501 Jackrabbit Trail in the City of Beaumont, California (Site). Portions of the Site were used for rocket motor testing, assembly, or propellant burning between 1958 to the late 1980s. Investigations conducted at the Site have identified perchlorate as the pollutant in soil and groundwater beneath and downgradient of the Site.
2. Cleanup efforts at polluted sites may be accomplished in whole or in part via the addition (discharge) of chemicals and other reactive materials (amendments) to soil and groundwater (in-situ) to promote remediation. A person or entity applying or proposing to discharge such amendments to soil or groundwater to promote remediation within a specified treatment zone must file a report of waste discharge (ROWD) pursuant to Water Code section 13260 and obtain waste discharge requirements (WDRs) for the discharge from the Santa Ana Water Board.
3. On May 14, 2018, the Santa Ana Water Board adopted Order R8-2018-0074, *Waste Discharge Requirements for Pilot Scale Biobarrier, the Former Lockheed Martin Beaumont Site 2, Laborde Canyon located at 96501 Jack Rabbit Trail, Beaumont, California* (Order). On June 9, 2023, the Santa Ana Water Board adopted Order R8-2023-0040 as an amendment to Order R8-2018-0074 to authorize *Full Scale Biobarrier Replenishment* and revised the Monitoring and Reporting Program R8-2018-0074 to decrease the number of wells sampled for volatile organic compounds (VOCs) and allow submission of monitoring reports on a semi-annual basis schedule.
4. The Order was issued to Lockheed Martin Corporation (Discharger) and regulates

the specified discharge for in-situ bioremediation of perchlorate and potentially VOCs in groundwater at the Site. The Santa Ana Water Board determined that issuance of individual WDRs would be more appropriate than enrollment under Order R8-2018-0092, *General Waste Discharge Requirements for In-situ Groundwater Remediation at Sites Within the Santa Ana Region* (General Order), given that the extent of the plume is beyond the treatment area and that Compliance Points per the definition in the General Order must be outside of the plume boundary.

5. The Order has an accompanying Site-specific groundwater monitoring and reporting program, Monitoring and Reporting Program R8-2018-0074, as amended by Order R8-2023-0040, that complies with requirements prescribed in the Order and is subject to change by the Executive Officer. The Site-specific monitoring and reporting program takes into account the seasonal fluctuations in groundwater level, hydrogeology, and the movement of the injected amendment and groundwater through the biobarrier.
6. On May 29, 2026, the Discharger requested to modify the Order to allow additional emulsified vegetable oil (EVO) replenishment of the biobarrier at the Site to maintain optimal conditions for perchlorate biodegradation. The Santa Ana Water Board agrees that the injection of additional EVO at the Site is necessary to complete in-situ remediation work at the Site.
7. The requirements in this amendment were developed based upon the proposed scope of work, background information, and Site-specific data presented in: (1) the Request to Modify Waste Discharge Requirements Order R8-2018-0074 and R8-2023-0040, (2) the Third and Fourth Quarter 2024 Waste Discharge Requirements Monitoring Report (dated January 15, 2025), and (3) the Third and Fourth Quarter 2025 Waste Discharge Requirements Monitoring Report (dated January 29, 2026); and email correspondences between Santa Ana Water Board staff and Lockheed Martin Corporation's technical consultants (May to October 2026).
8. Adoption of this amendment does not change the California Environmental Quality Act (CEQA) findings in the Order. The increased volume of the amendment discharged is only in the amount necessary to conduct in-situ remediation to address the concentrations of perchlorate and potentially VOCs in groundwater beneath the treatment zone at the Site. This change does not have the potential to cause a significant adverse impact on the environment.
9. The Santa Ana Water Board has notified interested agencies and persons of its intent to adopt this amendment and has provided them with an opportunity to submit written comments. There are no known tribal and/or disadvantaged communities in the vicinity of the Site.
10. The Santa Ana Water Board in a public meeting held on December 11, 2026 heard and considered all comments pertaining to this amendment.

REQUIREMENTS

IT IS HEREBY ORDERED, pursuant to Water Code sections 13263 and 13267, that Order R8-2018-0074, as amended by Order R8-2023-0040, is amended as follows:

1. Finding 7 is revised to read as follows:

For the purposes of this Order, the covered discharge includes injection of chemical amendments with the following specifications into the biobarrier area (attached Figure 1). The biobarrier will be used to intercept and remediate groundwater impacted with perchlorate near the southern boundary of the Site. The carbon substrates proposed for use in the biobarrier are EVO. The biobarrier will require up to the maximum volume of 6,750 gallons of EOS Pro mixed with 625,000 gallons of groundwater to be extracted and recirculated. The EOS Pro will be added to the biobarrier by sequentially extracting groundwater from one or more of the biobarrier well ports, amending the groundwater with EOS Pro, and recirculating the amended groundwater back into the biobarrier through well ports at the maximum flow rate of 100 gallons per minute (gpm). Amendment will be distributed into the subsurface by gravity. The biobarrier may be replenished with EOS Pro when one or more of the following conditions are observed during two consecutive quarterly monitoring events: (a) total organic carbon (TOC) concentrations are less than 10 milligrams per liter (mg/L) in two or more replenishment ports; (b) TOC concentrations are between 10 and 20 mg/L, and oxidation-reduction potential (ORP) values are greater than -50 millivolts (mV) in two or more replenishment ports; or (c) perchlorate concentrations exceed the cleanup goal of 6 micrograms per liter (µg/L) within the biobarrier.

2. Figure 1 – Biobarrier Layout, Tetra Tech, March 2025, included herewith as Attachment 1, is added to Order R8-2018-0074 as “attached Figure 1”.
3. Monitoring and Reporting Program R8-2018-0074, Table 2, note 1, as shown in Order R8-2023-0040, is revised to read as follows:

Monitoring parameters and frequency are subject to modification by the Executive Officer. Minimum of four quarterly events are required following completion of the last replenishment activities as authorized under this Order.

4. All other provisions of Monitoring and Reporting Program Order R8-2018-0074, as amended by Order R8-2023-0040, remain in effect.

ENFORCEMENT

The Santa Ana Water Board reserves the right to take any enforcement action authorized by law. Accordingly, failure to timely comply with any provisions of this Order may subject the Discharger to enforcement action. Such actions include, but are not limited to, the assessment of administrative civil liability pursuant to Water Code

sections 13323, 13268, and 13350, a Time Schedule Order (TSO) issued pursuant to Water Code sections 13300 and 13308, or referral to the California Attorney General for recovery of judicial civil liability. Failure to comply with this Order may result in the assessment of administrative civil liability of up to \$10,000 per violation, per day, depending on the violation.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Santa Ana Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board website https://www.waterboards.ca.gov/public_notices/petitions/water_quality/. Copies will also be provided upon request.

Attachment 1 - Figure 1 – Biobarrier Layout, Tetra Tech, March 2025

ATTACHMENT 1 - FIGURE 1 – BIOBARRIER LAYOUT

