



# Landfill Methane Regulation: **Reporting Tools Training**

Training session #1: January 25, 2022

Training session #2: January 26, 2022

Training session #3: January 31, 2022

# Training agenda

- Welcome + introductions
- Overview of LMR reporting requirements
- New report templates
  - Annual Reports
  - Waste-in-Place + Heat Input Capacity Reports
- Questions + discussion



# Participation

- Questions?
  - Select the “**Raise Hand**” button in the GoToWebinar toolbar which is shown as a hand icon.
  - When staff calls your name, please “**Unmute**” yourself by clicking the red button shown as a speaker icon. Once unmuted the icon will turn white and the slash will disappear, then proceed to introduce yourself.



**Unmute**

**Raise Hand**

# Overview - CARB's Landfill Methane Regulation (LMR)

- Adopted as a discrete early action measure under AB 32; in effect since 2010
- Established a stringent statewide standard for installing a gas collection and control system
- Requires extensive monitoring to ensure gas collection and control systems are maintained and operated to minimize methane emissions
- Estimated to capture at least 75% of landfill gas



# Overview - LMR applicability and exemptions

- The LMR applies to all MSW landfills that received solid waste after January 1, 1977
- The following landfill types are exempt:
  - Landfills that receive only hazardous waste
  - Landfills that contain only C&D, inert, or non-decomposable wastes;
  - Landfills that are closed with less than 450,000 tons of waste-in-place

# Overview - Regulatory status

Reporting requirements depend primarily on whether a landfill has a gas collection and control system (GCCS):

1. **Uncontrolled landfills** are those with passive venting systems, carbon adsorption systems, or no collection/controls of any kind
  - LMR Section 95463 Determination for Installing a GCCS
2. **Controlled landfills** are required to operate a GCCS and conduct routine monitoring to minimize methane emissions
  - LMR Sections 95464 through 95476



# Overview - report types

## Waste-in-Place Report

- Uncontrolled, active MSW Landfills with less than 450,000 tons of waste-in-place (WIP)
- *Sections 95463(a) and 95470(b)(4)*

## Heat Input Capacity Report

- Uncontrolled, active MSW Landfills with 450,000 tons of waste-in-place or greater
- *Sections 95463(b), 95470(b)(5), and 95471(b)*

## Annual Report

- Controlled MSW Landfills
- *Section 95470(b)(3)*

# Overview - annual reporting due date

Landfill Reports must be submitted annually, by March 15, with data covering the prior calendar year

- Landfills in Air Districts that have *not* entered into an MOU must submit the report directly to CARB
- Landfills in Air Districts that have entered into an MOU should submit to both their Air District and CARB
  - <https://ww2.arb.ca.gov/resources/documents/lmr-mou-air-districts>



# Overview - reporting vs. recordkeeping

- New templates cover reporting requirements specified in LMR section 95470(b)
- In addition, landfill owners and operators are required to keep records specified in LMR section 95470(a)

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**Unmute**

**Raise Hand**



# New report templates

# New report templates - purpose

- Simplify reporting process for reporting entities
  - Report complete information
  - Report only what is required by the LMR
  - Facilitate reporting information to U.S. EPA
- Increase efficiency for CARB and districts
  - Improve ability to find and interpret data
  - Enhances CARB and district ability to assist with compliance



# New report templates - format

- Enter mandatory LMR-required information and data in white input boxes with solid borders also labeled in bold font
- Enter additional information (optional) to support the interpretation of the required data in yellow input boxes with dashed borders
- Enter additional information required under the Federal Plan to implement the U.S. EPA Emission Guidelines (Annual Reports only) in blue input boxes with dotted borders

A white rectangular box with a solid black border, representing a mandatory LMR-required input field.A yellow rectangular box with a dashed black border, representing an optional input field for additional information.A light blue rectangular box with a dotted black border, representing an input field for additional information required under the Federal Plan.

# New report templates – supporting documentation

Other required information that is not included in the workbook should be submitted as a separate document(s) in addition to the completed report template

- Supporting documentation may include:
  - Topographic maps
  - CARB's Landfill Gas Tool
  - Other supporting documentation such as Closure Notifications, Alternative Compliance Option requests (ACO), updated Design Plans
  - Explanations for unforeseeable events or atypical situations that warrant additional information



# New report templates – how to submit

- Save the completed template as an Excel Workbook (file type “.xlsx”) include the Reporting Year and Landfill Name in the filename, for example:
  - **2021 ABC Landfill LMR Annual Report**
  - **2021 ABC Landfill LMR WIP\_HIC Report**
- If you have other supporting documentation, please submit these as separate attachments; include the Reporting Year and Landfill Name in the filename
- Submit reports and any supporting documentation to [LMR@arb.ca.gov](mailto:LMR@arb.ca.gov) – or contact staff if you have files that are too large to email, an alternative secure method will be provided

# New report templates - demonstration



# LMR links and contact information

LMR report templates and user guide

<https://ww2.arb.ca.gov/resources/documents/landfill-methane-regulation-report-templates>

Contact us with questions or feedback

[LMR@arb.ca.gov](mailto:LMR@arb.ca.gov)

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