

California Waste Solutions

**1211 Embarcadero,
Suite 300
Oakland, CA 94067**

September 2024

Prepared by:



Office Locations:

Los Angeles, Orange County, Riverside,
Ventura, San Diego, Fresno, Merced,
Bakersfield, Berkeley, San Francisco

Tel: (949) 248-8490

Fax: (949) 248-8499

Copyright ©2024, Yorke Engineering, LLC

Air Quality Plan

Air Quality Plan

Prepared for:

California Waste Solutions
1211 Embarcadero, Suite 300
Oakland, CA 94067

September 2024

Table of Contents

1.0	PROJECT OVERVIEW AND SITE PLAN	4
2.0	MITIGATION MEASURES	6
2.1	Construction Dust Controls.....	6
2.2	Construction Pollutant Emissions Controls.....	8
2.3	Stationary Sources of Air Pollution	11
2.4	Truck-related Emission Reduction	11
2.5	Public Engagement Plan (PEP).....	11

Table of Attachments

ATTACHMENT 1 – SPEED LIMIT SIGN

ATTACHMENT 2 – DAILY SITE INSPECTION CHECKLIST

ATTACHMENT 3 – COMPLAINT LOG

ATTACHMENT 4 – COMPLAINT SIGN ATTACHMENT 5 – IDLING POLICY SIGN

List of Figures

Figure 1: Site Plan.....	5
--------------------------	---

List of Tables

Table 1: SCA-AIR-1 Dust Control.....	7
Table 2: SCA-AIR-2 Criteria Pollutant Controls and SCA-AIR-3 DPM Controls	9
Table 3: SCA-AIR-5 Truck-Related Risk Reduction Measures.....	11

Air Quality Plan

1.0 PROJECT OVERVIEW AND SITE PLAN

This Construction Air Quality Plan covers the California Waste Solutions (CA Waste Solutions) North Gateway Recycling Facility Project (Project), located at 2008 Wake Avenue in Oakland, CA. Figure 1-1 below provides a site plan of the project. The facility will be located between West Grand Avenue to the south, Engineer Road to the north, and Wake Avenue to the west.

The Project will be a new material recycling facility that will receive, process, and transfer multiple material streams, including source-separated and mixed residential and commercial recyclable material.

2.0 MITIGATION MEASURES

The air quality Mitigation Measures (MMs) to be addressed are:

- SCA-AIR-1: Dust Controls – Construction Related
- SCA-AIR-2: Criteria Air Pollutant Controls – Construction Related
- SCA-AIR-3: Diesel Particulate Matter Controls – Construction Related
- SCA-AIR-4: Stationary Sources of Air Pollution
- SCA-AIR-5: Truck-Related Risk Reduction Measures

This Plan provides implementation guidance for these MMs to reduce air quality impacts from Project construction to address the conditions of approval of the Project CUP.

To track implementation, a Mitigation Measure Report Plan (MMRP) shall be submitted monthly. The MMRP will include the following¹:

- MMRP tracking spreadsheet
- MMRP daily inspection checklist
- Truck Log
- Master Equipment List
- Equipment Projected Hours

2.1 Construction Dust Controls

Airborne fine particulate matter from construction dust is a concern to local communities during construction. Dust mitigation measures and the associated specific actions listed in Table 1 are components to be integrated in the construction dust control plan for the Project. The dust control plan will be part of the overall project Construction Management Plan. The dust control plan may be provided to the BAAQMD upon request.

Kevin Mitchell, CA Waste Solutions Safety Manager, will be the designated Dust Compliance Officer (DCO) for the Project. The DCO is responsible for monitoring and facilitating the implementation of the mitigation measures. He will maintain all checklists and logs during the Project.

¹ See Link to an example of a MMRP Report for prior vertical construction provide by Whiting Turner Construction

Table 1: SCA-AIR-1 Dust Control

Mitigation Measure	Monitoring/Action
Post speed limit signs to limit on-site speeds under 15 mph.	<ul style="list-style-type: none"> ▪ Post signage and enforce 15 mph speed limit requirement for unpaved roads (Attachment 1); ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).
Post sign visible to the public listing the DCO contact to register dust complaints as well as BAAQMD Complaint Line number (1-800- 334-6367)	<ul style="list-style-type: none"> ▪ Designate contact person and phone number for complaints; ▪ Maintain Complaint Log (Attachment 3); ▪ Post signage and enforce dust complaint reporting requirement (Attachment 4); ▪ Take corrective action to remedy complaints within 48 hours.
Treat all site access within 100 feet of paved road with 6-12 inches of compacted wood chips, mulch, or gravel	<ul style="list-style-type: none"> ▪ Obtain construction area entrance design to verify it meets requirements; ▪ Install construction area entrances to specifications; ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).
Water all exposed surfaces of active construction areas at least 2x daily. Increase watering when wind speed >15 mph	<ul style="list-style-type: none"> ▪ Monitor wind speed at site; ▪ Wet exposed surfaces, including active stockpiles, 2x a day with reclaimed water; ▪ Maintain minimum soil moisture of 12% as indicated by soil samples or moisture meter; ▪ Enclose, cover, or water 2x a day or apply non-toxic soil stabilizers to exposed stockpiles (dirt, sand, etc.); ▪ Hydroseed or apply non-toxic soil stabilizers to previously graded construction areas inactive for >1 month; ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).

Mitigation Measure	Monitoring/Action
Minimize windblown dust	<ul style="list-style-type: none"> ▪ Install appropriate wind breaks (e.g., trees, fences) on the windward side(s) of actively disturbed areas of the construction site to minimize windblown dust. Wind breaks must have a maximum 50 percent air porosity; ▪ Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.
Limit simultaneous excavation, grading, and ground-disturbing construction activities	<ul style="list-style-type: none"> ▪ Activities shall be phased to reduce amount of disturbed surfaces at one time.
Suspend demolition, excavation, and grading when wind speed >20 mph	<ul style="list-style-type: none"> ▪ Monitor wind speed at site; ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).
Cover trucks hauling loose material with at least 2 feet freeboard	<ul style="list-style-type: none"> ▪ Inspect trucks daily; ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).
Rinse all trucks of dirt, including tires, before leaving site	<ul style="list-style-type: none"> ▪ Provide wash station for trucks leaving site; ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).
Minimize trackout from site	<ul style="list-style-type: none"> ▪ As soon as practical and prior to rainy season, cover all access roads and/or permanent roads and building pads with aggregate or asphalt concrete to mitigate tracking of dirt and/or mud offsite; ▪ Pave all roadways, driveways, sidewalks, etc. as soon as feasible; ▪ Building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
Remove visible dirt on public roads outside site access points at least once per day with wet sweeper	<ul style="list-style-type: none"> ▪ Clean roads of visible dirt trackout at end of day with wet sweeper; ▪ Record compliance on Daily Site Inspection Checklist (Attachment 2).

2.2 Construction Pollutant Emissions Controls

Criteria air pollutants of concern for the Project are reactive organic gases (ROG), nitrogen oxides (NOx), particulate matter (PM) less than 2.5 micrometers (PM2.5), and PM less than 10

micrometers (PM10) are addressed in MM SCA-AIR-2. Diesel particulate matter (DPM) from construction vehicles and trucks on site also needs to be mitigated according to MM SCA-AIR-3. Table 2 contains a list of actions to be included in the Construction Emissions Minimization Plan for the Project, which address implementation of these MMs. The Construction Emissions Minimization Plan will be provided to the City of Oakland and the BAAQMD.

Table 2: SCA-AIR-2 Criteria Pollutant Controls and SCA-AIR-3 DPM Controls

Mitigation Measure	Monitoring/Action
Limit idling of vehicles	<ul style="list-style-type: none"> ▪ Post signage and enforce limit on idling to less than 2 minutes (Attachment 5); ▪ Turn off equipment when not in use; ▪ Develop written Idling Policy for project; ▪ The project site manager shall monitor delivery trucks and other equipment assuring compliance with the idling limit.
Portable equipment should use electricity when possible. If not, use propane or natural gas	<ul style="list-style-type: none"> ▪ All contractors shall have construction power on-site and will provide at least two EV charging stations; ▪ Portable generators used on site should be electric, propane, or natural gas only; ▪ All off- road equipment with a power rating of 19 kilowatts or below used during construction shall be zero emissions or shall comply with Tier 4 requirements and all current emission standards; ▪ CA Waste Solutions will obtain written inventory of equipment to be used onsite from all contractors.
All on-site equipment subject to the requirements of Title 13, Section 2449 of the California Code of Regulations ("CARB Off-Road Diesel Regulations") must meet Emissions and Performance Requirements one year in advance of any fleet deadlines	<ul style="list-style-type: none"> ▪ Operator shall provide list of registered equipment from CARB DOORS that will be used onsite; ▪ Inventory should include manufacturer, equipment identification number, engine model year, engine certification rating, horsepower, and engine serial number.
Maintain and tune construction equipment. Certified mechanic must check all equipment before operation. Equipment shall be maintained per manufacturers' standards.	<ul style="list-style-type: none"> ▪ CA Waste Solutions will obtain paperwork from operators validating tuning of equipment; ▪ Maintain paperwork onsite during project.

Mitigation Measure	Monitoring/Action
Coatings used must meet BAAQMD Reg 8, Rule 3 requirements	<ul style="list-style-type: none"> ▪ CA Waste Solutions will obtain paperwork or SDS information on coatings to be used.
Reduce daily criteria pollutant emissions of ROG, NO _x , PM _{2.5} , PM ₁₀	<ul style="list-style-type: none"> ▪ CA Waste Solutions will use zero emission off-road equipment and on-road heavy-duty trucks where feasible; ▪ CA Waste Solutions will maintain a written inventory of all off-road equipment to be used onsite and will forward this inventory to Staff monthly; ▪ Inventory should include manufacturer, equipment identification number, engine model year, engine certification rating, horsepower, and engine serial number; ▪ Use low-emission diesel fuel for all heavy-duty diesel equipment; ▪ Utilize alternative fueled equipment as much as possible (compressed natural gas, liquid petroleum gas, gasoline); ▪ Use diesel equipment retrofitted with emission controls (e.g. catalyst); ▪ The Dust Control Officer will submit the Construction Emissions Minimization Plan to City of Oakland and BAAQMD.
<p>All contractors shall comply with Tier 4 requirements and all current emission standards.</p> <p>All off-road equipment must be equipped with the most effective VDECS and must be properly maintained and tuned in accordance with manufacturer specifications.</p>	<ul style="list-style-type: none"> ▪ Operator shall provide list of registered equipment from CARB DOORS that will be used onsite; ▪ Inventory should include technology type, fuel type, serial number, make, model, manufacturer, CARB verification number level, and installation date; ▪ CA Waste Solutions will maintain a monthly log to validate that only CARB compliant trucks and on-site equipment are operating at the construction site. ▪ This shall be verified through an equipment inventory submittal and Certification Statement that the Contractor agrees to compliance and acknowledges that a significant violation of this requirement shall constitute a material breach of contract.

2.3 Stationary Sources of Air Pollution

MM SCA-AIR-4 requires mitigation of stationary source air pollution. A stationary source of air pollution is any equipment or operation located at the Project site that is part of ongoing operations that has associated emissions to the air. To comply with MM SCA-AIR-4, specifications for the electric generators to be used on site are to be submitted to the City of Oakland Planning Department for review prior to issuance of the construction-related permit. Generators used as part of the Project are required to be non-diesel fueled, or be diesel fueled with an EPA-certified Tier 4 engine.

2.4 Truck-related Emission Reduction

MM SCA-AIR-5 requires mitigation of air pollution related to the use of trucks as part of the Project operation. To comply with this MM, an application for verification of the truck fleet will need to be submitted to CARB for approval, and then to the City of Oakland once approved.

Table 3: SCA-AIR-5 Truck-Related Risk Reduction Measures

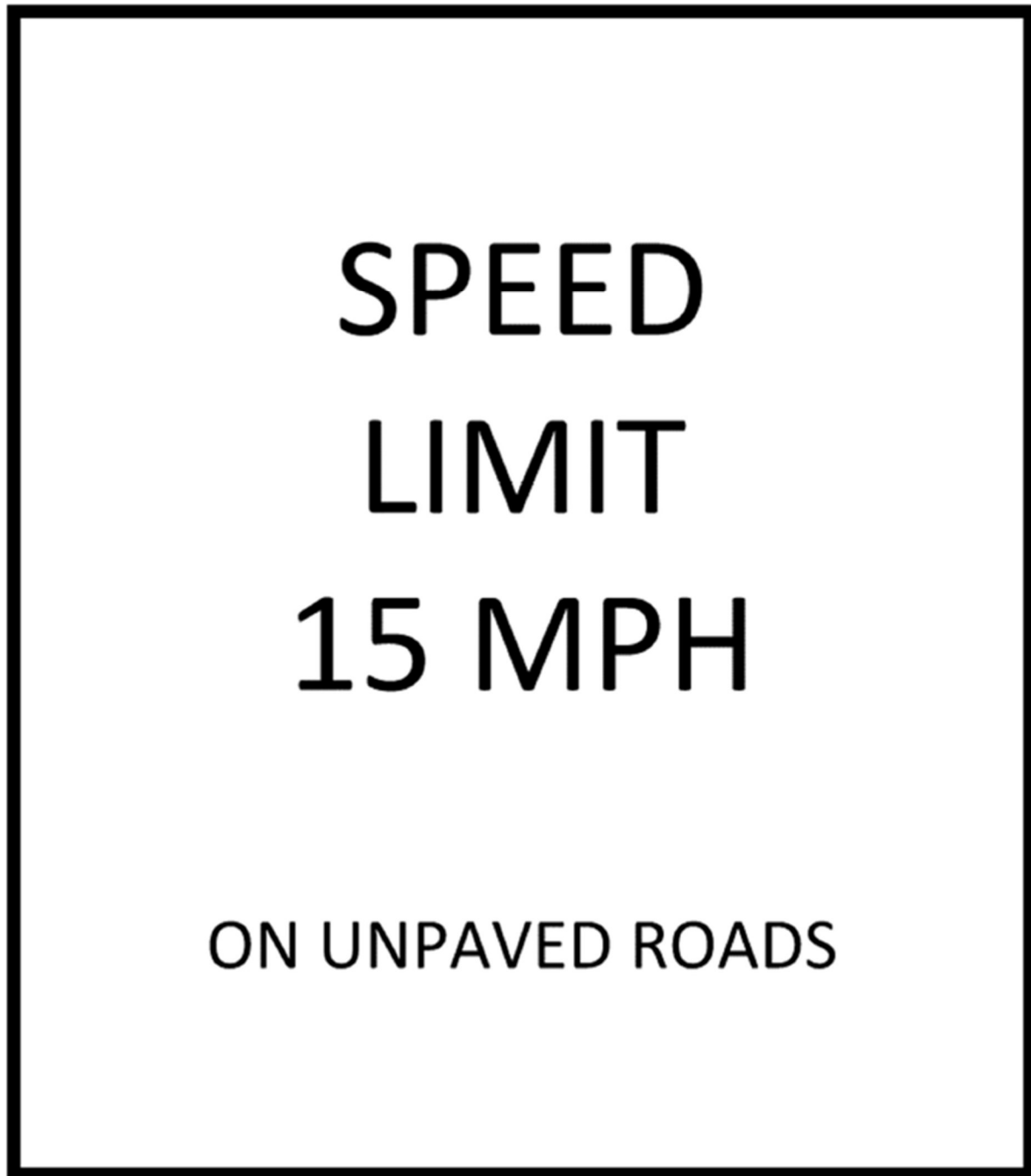
Mitigation Measure	Monitoring/Action
Locate truck loading docks as far from sensitive receptors as possible	<ul style="list-style-type: none"> ▪ Review construction plan to determine location of loading docks relative to nearby sensitive receptors, such as schools, day care centers, hospitals, etc.
Comply with applicable CARB requirements for diesel trucks	<ul style="list-style-type: none"> ▪ Use of new clean diesel trucks, higher-tier diesel engine trucks with PM filters, hybrid trucks, alternative energy trucks; ▪ CA Waste Solutions will monitor CARB compliance of all heavy-duty trucks that are planned to enter the construction site and will also maintain a monthly log to validate that only CARB compliant trucks and on-site equipment are operating at the construction site; ▪ Verify fleet through CARB Verification Procedures for In-Use Strategies to Control Emissions from Diesel Engines.

2.5 Public Engagement Plan (PEP)

The OAB PEP requires community outreach as specified in mitigation measure PO-1. The project applicant and City staff will host a pre-construction stakeholder meeting to present the revised AQ Plan and answer any questions from the community. This meeting is necessary to satisfy both the PEP and MM PO-1.

A local community outreach consultant chosen from the City’s consultant list shall be retained to coordinate and implement a robust meeting notification program to reach a maximum number of West Oakland community residents.

ATTACHMENT 1 – SPEED LIMIT SIGN



ATTACHMENT 2 – DAILY SITE INSPECTION CHECKLIST

ATTACHMENT 3 – COMPLAINT LOG

Complaint Log

Site: North Gateway Recycling Facility

Complainant Name	Complainant Address	Complainant Phone Number	Complainant Email	Date and Time of Complaint	Complaint Received By	Nature of Complaint (Dust, Noise, Traffic, etc.)	Addressed By	Resolution Date

ATTACHMENT 4 – COMPLAINT SIGN

ATTENTION

**PERMITTED CONSTRUCTION HOURS:
Monday-Sunday 6AM-8PM**

There will be no work on site outside of permitted hours
without written permission from City of Oakland.

**FOR CONCERNS REGARDING DUST,
CONSTRUCTION NOISE, EROSION OR ANY
CONSTRUCTION ACTIVITY ON THIS
PROJECT, PLEASE CONTACT:**

During Construction Hours –
After Construction Hours –

Dust Compliance Officer
510-600-1083

**CITY OF OAKLAND CODE COMPLIANCE:
(510) 238-3381**

**OAKLAND POLICE DEPARTMENT 24 HR LINE:
(510) 777-3333**

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT:
(800) 334-6367**

ATTACHMENT 5 – IDLING POLICY SIGN

IDLING POLICY

IDLING TIMES ON ALL DIESEL-FUELED COMMERCIAL VEHICLES OVER 10,000 LBS AND DIESEL-FUELED OFF-ROAD VEHICLES OVER 25 HORSEPOWER SHALL BE MINIMIZED EITHER BY SHUTTING EQUIPMENT OFF WHEN NOT IN USE OR REDUCING THE MAXIMUM IDLING TIME TO TWO MINUTES.

(CCR TITLE 13, SECTION 2485 & 2449)

VIOLATIONS SUBJECT TO MINIMUM FINE OF \$300.