



MAGNUM CONSTRUCTION SERVICES INC.

AIR QUALITY / DUST CONTROL PLAN (AQDCP)

Document Code: MCS-EN-P05 | **Revision:** 1.0 | **Effective Date:** November 1, 2025

1. PURPOSE

To prevent or minimize air emissions, visible dust, and airborne contaminants resulting from Magnum Construction Services Inc. operations. This plan aligns with **EPA 40 CFR Part 50, FDEP 62-296, OSHA 1926.57/1910.94**, and **ISO 14001** environmental management standards.

2. SCOPE

Applies to all field operations that may generate particulate or gaseous emissions, including:

- Site clearing, excavation, grading, and hauling
 - Concrete cutting, grinding, and batching
 - Masonry block saws and mortar mixing
 - Steel stud framing and power-tool use
 - Stockpiles, truck movement, and laydown areas
 - Diesel-powered equipment exhaust
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3. REFERENCES

- **Clean Air Act (42 U.S.C. 7401 et seq.)**
 - **FDEP Air Resource Management Rules**
 - **FDOT Section 107 – Environmental Protection**
 - **OSHA 29 CFR 1926.57 Ventilation**
 - **Magnum EMP (MCS-EN-P01) and SWPPP (MCS-EN-P04)**
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Role	Responsibility
Project Manager	Ensure implementation and resources for dust suppression.
Environmental Coordinator (EC)	Conduct air-quality monitoring, maintain logs, and update controls.
HSE Manager	Train staff on respiratory protection and dust-control techniques.
Site Superintendent / Foremen	Inspect and maintain suppression systems, water trucks, and sweepers.
Subcontractors	Comply with all requirements of this plan.

5. CONTROL MEASURES

5.1 Dust Suppression Techniques

- Water trucks or sprinklers on haul roads and active earthwork.
- Pre-wet stockpiles and disturbed soil areas; reapply as needed.
- Limit vehicle speeds to ≤ 10 mph on unpaved surfaces.
- Apply temporary stabilizers or tackifiers to inactive areas (> 14 days).
- Install wind fencing or covers for lightweight materials.

5.2 Concrete & Masonry Operations

- Use wet-cut saws and vacuum-equipped grinders.
- Collect slurry; prevent runoff to storm drains.
- Cover cement and sand storage bins.
- Maintain mixing equipment to prevent visible dust plumes.

5.3 Haul Road & Truck Control

- Maintain stabilized entrances/exits per SWPPP.
- Sweep or vacuum paved roads daily.
- Cover all trucks transporting friable material.

5.4 Diesel & Engine Emissions



- Maintain equipment under preventive-maintenance schedules.
- Prohibit idling beyond 5 minutes.
- Use ultra-low-sulfur diesel (ULSD) where available.

5.5 Material Storage & Waste Handling

- Store debris in covered bins or dampened piles.
- Segregate and recycle fine dust material where practical.

6. MONITORING & INSPECTION

Parameter	Frequency	Method	Responsible
Visible Dust Observation	Daily	Visual (Opacity $\leq$ 20 %)	Foreman / EC
Wind Speed > 25 mph	Continuous (Site Anemometer)	Suspend dust-producing work	EC
Water Truck Operation	Daily Log	Volume used (gal) / Route coverage	Site Superintendent
PM ₁₀ Monitoring (if required)	Weekly / as specified	Portable monitor / lab analysis	EC
Equipment Emissions Check	Monthly	Visual smoke / maintenance record	HSE Manager

7. RECORDS & FORMS

Record Type	Form Code	Retention	Custodian
Daily Dust Control Log	MCS-EN-F05A	5 years	Site Superintendent
Water Usage Log	MCS-EN-F05B	5 years	EC



Record Type	Form Code	Retention	Custodian
Air Monitoring Report	MCS-EN-F05C	5 years	EC
Equipment Maintenance Records	MCS-OP-F07	5 years	HSE Manager
Training Records	MCS-EN-F09	5 years	HR / EHS

8. TRAINING REQUIREMENTS

- Induction: Dust control principles, PPE, equipment maintenance.
- Task-specific: Concrete saw, grinder operators, and water-truck drivers.
- Annual refresher training.

9. INCIDENT RESPONSE

If visible emissions exceed **20 % opacity** or community complaint occurs:

1. Suspend activity immediately.
2. Apply water or cover source.
3. Document with photos and complete **Air Quality Event Log (MCS-EN-F05D)**.
4. Report to EC and HSE Manager within 1 hour.
5. Investigate root cause and implement corrective actions.

10. PERFORMANCE TARGETS

Metric	Target	Evaluation Method
Visible Dust Emissions	< 20 % opacity for > 5 sec	Daily field inspection
Dust Complaints	0 substantiated complaints	Complaint Log
Equipment Emissions Violations	0 failures	Maintenance records
Water Usage Efficiency	Optimize without runoff	Water Usage Log

11. PLAN REVIEW & REVISION

Review annually or after any exceedance, regulatory change, or community complaint.

12. APPROVALS

Reviewer	Department	Signature / Date	Comments
Project Manager	Operations		
HSE Manager	Safety & Environment		
Environmental Coordinator	EHS Dept		
Executive Director	Corporate		
Client / Consultant	External		