

MS4 PERMIT OVERVIEW

PALMER LAKE PLANNING COMMISSION

DECEMBER 3, 2025



Chavez Consulting Inc., LLC
Your key to stormwater compliance!



MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT

- NPDES = National Pollutant Discharge Elimination System
- Five (5) year permit administered by Colorado Department of Public Health & Environment
 - **Effective Date: July 1, 2016, to June 30, 2021**
- Colorado Discharge Permit System Stormwater Certification No.: COR090014
- Requires Implementation of “Control Measures”

SIX CONTROL MEASURES

1. Public Involvement and Participation
2. Public Education and Outreach
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management
6. Pollution Prevention/Good Housekeeping for Municipal Operations

PROGRAM DESCRIPTION DOCUMENT

- Current Control Measures Implementation and Procedures
- Current Documents and Electronic Records
- Current Organizational Chart

PUBLIC INVOLVEMENT & PARTICIPATION

- Follow City's Public Notice Process
- Provide mechanism and process to allow public comment on PDD
- Must have ability to accept and respond to info submitted by public on illicit discharges and failure to implement control measures

PUBLIC EDUCATION AND OUTREACH

- Illicit Discharges
 - Identify and target likely business
- Education and Outreach Activities
 - Four activities per year
- Nutrients
 - Identify and target likely sources

ILLICIT DISCHARGE DETECTION/ELIMINATION

- Storm Sewer Map
- Regulatory Mechanism
- Exemptions
- Tracing Procedure
- Removal
- Enforcement Response
- Priority Areas
- Training

CONSTRUCTION SITES

- Exclusions
- Regulatory Mechanism and Exemptions
- Control Measure Requirements
- Site Plans
- Site Inspections
- Enforcement Response
- Training
- Overlapping Projects

CONSTRUCTION SITES

Site Plans

- Must require and review prior to construction for all sites >1 acre
- Review to Confirm:
 1. plans contain appropriate control measures
 2. control measures meet permit requirements
 3. plans meet permit requirements

CONSTRUCTION SITE PLANS

Land disturbance and storage of soils

Vehicle tracking

Loading and unloading operations

Outdoor storage of construction site materials, building materials, fertilizers, and chemicals

Bulk storage of materials

Vehicle and equipment maintenance and fueling

Significant dust or particulate generating processes

Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, and oils

Concrete truck/equipment washing, including the concrete truck chute and associated fixtures and equipment

Dedicated asphalt and concrete batch plants

Other areas or operations where spills can occur

Other non-stormwater discharges including construction dewatering

CONSTRUCTION SITES

Site Inspections

- Exclusions
- Routine: every 45 days
- Reduced: every 90 days
- Compliance: every 14 days
- Enforcement Response

POST CONSTRUCTION (NEW AND REDEVELOPMENT)

- Excluded Sites
- Regulatory Mechanism
- Exemptions to Regulatory Mechanism
- Control Measures Required
- Site Plans
- Construction Inspection and Acceptance
- Long Term Operation and Maintenance
- Enforcement Response
- Tracking
- Training
- Overlapping Site

POST CONSTRUCTION (NEW AND REDEVELOPMENT)

Exclusions

- Pavement Management
- Excluded Roadway Development
- Excluded Existing Roadways
- Above and Underground Utilities
- Large Lot Single Residential
- Non-Residential, Non-Commercial Infiltration
- Sites with Land Disturbance to Undeveloped Land that will Remain Undeveloped
- Stream Stabilization
- Trails
- Oil and Gas Exploration
- County Growth Areas

POST CONSTRUCTION (NEW AND REDEVELOPMENT)

Control Measure Requirements

“Base Design Standard”

- WQCV: 100% of applicable site
- Pollutant Removal Standard: treat 80% storm; remove TSS to median value of 30 mg/l.
- Runoff Reduction: infiltrate, evaporate, evapotranspire 60% of WQCV
- Regional WQCV Control Measure
- Regional WQCV Control Facility
- Constrained Redevelopment
- Previous Permit Term Standard

POLLUTION PREVENTION/GOOD HOUSEKEEPING

Control Measure Requirements

- Facility Runoff Control Measures
 - Requires annual inspection
- Municipal Operations and Maintenance Procedures
- Nutrient Source Reduction
- Outdoor Bulk Storage
- Training

OTHER TERMS AND CONDITIONS

- Recordkeeping
- No Chemical Addition Allowed
- Spill Reporting
- Discharges to Waters with TMDL
- Implementation by Others
- Monitoring
- Annual Program Evaluation

WHAT'S IN THE NEAR FUTURE

- Permit Renewal
- Staff Training
- Program Description Document Updates
- Regulatory Mechanism Updates

QUESTIONS

Thank you,



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