Compliance Perspective
Achieving and Maintaining $\text{PM}_{10}$ Air Quality Standards
National Ambient Air Quality Standards (NAAQS) Compliance Status

- PM$_{10}$ concentrations are measured in ug/m$^3$ (micrograms per cubic meter).

- The allowable limit for PM$_{10}$ (dust) is 150 ug/m$^3$ averaged over a 24-hour period.

- To remain in attainment Clark County is allowed only 3 exceedances of this limit in 3 years.
The U.S. EPA classified the Las Vegas Valley as a **serious non-attainment** area for \( \text{PM}_{10} \) in 1993.

- This meant that the air quality in Las Vegas didn’t meet the minimum standard for health risks due to \( \text{PM}_{10} \).
- Clark County developed and submitted a SIP to EPA.
- Clark County achieved attainment of the \( \text{PM}_{10} \) standard in 2010.
- \( \text{PM}_{10} \) Maintenance Plan was submitted to EPA in 2012.
- Maintenance Plan was approved by EPA in October 2014.
- Clark County was re-designated to \( \text{PM}_{10} \) attainment status.
How did Clark County
Achieve PM$_{10}$ “Attainment”

What will Clark County do to
Maintain PM$_{10}$ Attainment

A “Dust Cop” Prospective
2001 Valley-Wide 24-Hour PM$_{10}$ Emissions Inventory

- Paved Road Dust: 26%
- Vacant Land Dust: 36% (Includes Disturbed & Undisturbed Vacant Land)
- Unpaved Road Dust: 8%
- Mobile Source Exhaust: 1% (On-road, Off-road, & Airports)
- Point & Area Sources: 2% (Factories, Industries, etc.)
- Construction Activities: 27%
Fugitive Dust
Air Quality Regulations
Vacant Land
Unpaved Parking Lots & Storage Yards
Unpaved Roads
FUGITIVE DUST FROM OPEN AREAS AND VACANT LOTS

- Soil disturbed by any means, including:
  - Un-permitted construction activity
  - Vehicular traffic
  - Parking
  - Illegal dumping and stockpiling
  - Weed abatement or lot clean up
What Fugitive Dust Measures were Implemented on Vacant Land:

- Vacant Land Owners, Clark County, the cities and BLM did many of the following:
  - Fenced thousands of acres of land to stop trespassing
  - Blocked access to disturbed parcels and pioneered roads
  - Posted No Trespassing signs
  - Stabilized thousands of acres of disturbed land that are no longer a fugitive dust problem
Vacant Land Compliance

- DAQ will continue to do the following:
  - Inspect vacant land parcels
  - Respond to complaints
  - Inform landowners of responsibilities
  - Issue compliance actions to landowners

DAQ will continue enforcement of the Vacant Land Regulation as written, no changes.
Fugitive Dust from Unpaved Parking Lots and Storage Yards
Unpaved Parking and Storage Lots

- Existing parking lots and storage yards
  - Established and in use before December 31, 2002
  - Control Measures: Gravel, Dust Palliative or Pave

- New parking lots and storage yards
  - Established after January 1, 2003
  - Control Measures: Pavement required
    - With a few exemptions
What Fugitive Dust Measures were Implemented on Unpaved Parking lots and Storage Yards:

- Landowners and government agencies did many of the following:
  - Stabilized hundreds of parking and storage lots with gravel or dust palliatives. (must be reapplied and maintained)
  - Paved hundreds of parking and storage lots.
  - Blocked off access to areas where unauthorized parking was occurring.
  - Clark County and the cities will not approve any new unpaved parking lots or storage areas in the Las Vegas Valley.
Parking & Storage Lot Compliance

DAQ will continue to do the following:

- Inspect unpaved parking and storage lots
- Respond to complaints
- Inform landowners of responsibilities
- Issue compliance actions to owner/operators of unpaved lots

DAQ will continue enforcement of the Unpaved Parking Lot Regulation as written, no changes.
Biggest Issue

- Building new parking lots and storage areas without:
  - City or County Zoning and Planning approval,
  - No Grading, Building, or Dust Control Permits,
  - Covering surface with materials that are not pavement,
  - What is Required:
    - Asphaltic Concrete, Concrete, Rubberized Asphalt
Fugitive Dust from Unpaved Roads
Clark County
City of Las Vegas
City of North Las Vegas
City of Henderson

- Implemented the following:
  - Paved hundreds of miles of unpaved roads
  - Blocked off short-cut roads
  - Tightened up rules on road construction
Road Construction

No unpaved roads or alleys can be constructed in the public thoroughfare in the Las Vegas Valley or Apex area.
Unpaved Road Compliance

DAQ will continue to do the following:

- Inspect unpaved roads
- Respond to complaints
- Inform ROW holders of responsibilities
- Issue compliance actions to owner/operators of unpaved roads

DAQ will continue enforcement of the applicable parts of the Unpaved Road Regulation.
Fugitive Dust from Paved Road Shoulders
Fugitive Dust from Street Sweepers
Permitting and Dust Control for Construction Activities

<table>
<thead>
<tr>
<th>PROJECT NAME:</th>
<th>Centennial &amp; Losse (stockpile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERMITTEE:</td>
<td>US Home Corporation Land Division</td>
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<tr>
<td>Dust Control Matters</td>
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</tr>
<tr>
<td>Phone Number:</td>
<td>296-2366</td>
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<tr>
<td>Clark County - Department of Air Quality Management</td>
<td>385-DUST</td>
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<tr>
<td>Phone Number:</td>
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<tr>
<td>Dust Control Permit Number:</td>
<td>#200305020850031</td>
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<tr>
<td>Project Acreage:</td>
<td>8</td>
</tr>
<tr>
<td>Expiration Date:</td>
<td>05/01/2004</td>
</tr>
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</table>
Dust Control Permit needed for the following Construction Activities:

- ¼ acre or more of land is to be disturbed for construction.
- Mechanized trenching 100 feet or more.
- Mechanical demolition of any structure 1,000 square feet or more.
- This is required in all parts of Clark County.
BMP: Best Management Practices for Dust Control
BMP’s Must Be Implemented 24 / 7
What has the Construction Industry Done to Help Get Clark County into Attainment with PM$_{10}$ ??
Dust Control Permits
For Every Acre Disturbed

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**DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES**
**INCLUDING SURFACE GRADING AND TRENCHING**

**Permit Number:** 44539  Mod: 0

**Permittee and Project Information**
- **Permittee:** NPL Construction
- **Permittee Address:** 5025 Cameron St.
- **City, State, Zip:** Las Vegas, NV 89118
- **Fax No.:** 7022229422
- **Project Name:** SI-COH Galleria/ Gibson Reg Station
- **Project Address:** Galleria Dr. & Gibson Rd., Henderson
- **Located In:** Township: 22  Range: 62  Section: 2  EO Area: ESE
- **Acreage This Mod:** 0.4  **Total Acreage:** 0.4
- **Cross Streets:** Galleria Dr. & Gibson Rd.

**Project Contact(s)**
- **Normal Hours:** Martin Green  NPL Construction  (702)429-1657
- **After Hours:** Martin Green  NPL Construction  (702)222-9024

**Issue Date:** 05-Jan-2015  **Expiration Date:** 05-Jan-2016

**Notes:**
- Request Of Sign Waiver
- Public Works Agreement
- Closure Plan
- Conditional Renewal

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**DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK**
DCP Acreage by Year

![Bar chart showing DCP acreage by year from 2001 to 2014. The chart indicates significant fluctuations in acreage, with peaks in 2005 and 2006.]
Fugitive Dust Control

Money

Personnel

Equipment

Time
Water
Trackout Control
Dust Palliatives
34,400 Attendees for Dust Class
1,157 Attendees for Dust Monitor Class
Construction Site Compliance

- DAQ will continue to do the following:
  - Issue Dust Control Permits
  - Inspect construction sites and activities
  - Respond to complaints
  - Teach Dust Class and Dust Monitor Class
  - Issue compliance actions to permittees
  - Issue Notices of Violations

DAQ will continue enforcement of Section 94 Permitting and Dust Control for Construction Activities
Clark County Department of Air Quality
Dust Compliance Division

- Inspect and Enforce Regulations on the Following:
  - Construction Projects and Activities
  - Vacant Land
  - Unpaved Parking Lots and Storage Yards
  - Unpaved Roads
  - Paved Road Shoulders & Street Sweepers
  - Asbestos Program
  - Demolitions
  - Open Burning
  - PM\textsubscript{10} Stationary Sources –
    - Mines, Gravel Pits, Concrete Plants
Dust Compliance Division

Field Staffing:
- 9 Air Quality Specialists (AQS)
- 2 AQS Asbestos Inspectors
- 2 Senior Air Quality Specialists
- 1 Supervisor

“Seriously”
Dust Notices and Advisories

- DAQ Compliance and Monitoring Division
  - The DAQ staff meteorologist monitors the upcoming weather conditions
  - Watch for conditions that indicate elevated levels of wind
  - Consults with Compliance the merits of issuing a Notice or Advisory

- Construction Notice
  - Sustained winds > 20 MPH and Gusts > 30 MPH
  - Email DCP Holders, Superintendents, Dust Monitors & Others

- Dust Advisory
  - Sustained winds > 25 MPH and Gusts > 40 MPH
  - Email DCP Holders, Superintendents, Dust Monitors & Others
  - DAQ implements the Dust Related Exceptional Events plan
    - Additional field compliance personnel
    - Document violations, overall conditions and good BACM practices
Enforcement Division

- Notice of Violation
  - Contains:
    - Factual allegations
    - Monetary penalty assessed
    - The NOV may be contested based on the penalty and/or facts
Hearing Officer

- Administrative Hearing
  - Hearing Officer
    - Independent citizen that adjudicates NOV’s
  - Will hear the evidence
  - Determine if a violation occurred
  - Assess a penalty
  - Hearing Officer decision may be appealed to:
    - Hearing Board
Penalties

- 2007 - $1,028,300
- 2011 - $123,600
- 2014 - $301,090
QUESTIONS??