Devil’s Gate Reservoir Restoration Project
Dust Control at Devil’s Gate Reservoir

3 Independent Dust Sources:

1. Dust Control Inside Reservoir
   - Watering at excavation operations

2. Dust from Tops of Loaded Trucks
   - Maintaining proper freeboard
   - Watering tops of loads
   - Tarping Pilot Program

3. Dust on Local Streets
   - Tire wash
   - Street sweeping
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A SUSTAINABLE DEVIL'S GATE RESERVOIR
Dust Control Measures Inside Reservoir

- Air Quality Consultant (Tetra Tech) collecting hourly air monitoring readings for dust.
- If there is a high reading, operations are modified to prevent reoccurrence.
- Fugitive dust inside the reservoir has not been an issue and has been controlled with adequate watering.

Watering at excavation operations
Taking a Community-First Approach

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Dust from Tops of Trucks

- CA Vehicle Code requires at least 6 in. of air space (freeboard) at the top of each load.
- Dedicated monitor onsite checking all trucks for proper freeboard.
Dust from Tops of Trucks

- All loaded trucks are watered before leaving the reservoir.
- Watering the top of each load and maintaining proper freeboard significantly reduces the potential for dust to blow off the tops of loaded trucks.
Dust from Tops of Trucks

• Tarping haul trucks was evaluated as a measure to control dust blowing off the tops of the loaded trucks while approaching freeway speeds.
  • Tarping unrelated to Public Works’ effort to control dust on local haul routes.
• Public Works initiated a tarping pilot program on 8/19/19, and monitored trucks for 10 haul days (concluded on 9/4/19).
  • 280+ hours of observation by Public Works
  • 629 truck trips observed
• Public Works monitored trucks traveling along the haul routes and kept a log of trucks with and without tarps and documented conditions.
  • No dust observed blowing off the tops of trucks on local streets
  • No rocks observed falling out of the back of trucks
  • Video taken of observations
• Results indicate that the tarped trucks show no appreciable difference in the occurrence of dust coming from the tops of trucks.
## Dust from Tops of Trucks

<table>
<thead>
<tr>
<th>Dust Level</th>
<th>% of Tarped Trucks</th>
<th>% of Non-Tarped Trucks</th>
<th>% of All Trucks</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>79%</td>
<td>78%</td>
<td>78%</td>
</tr>
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<td>13%</td>
<td>9%</td>
<td>11%</td>
</tr>
<tr>
<td>2</td>
<td>6%</td>
<td>12%</td>
<td>10%</td>
</tr>
<tr>
<td>3</td>
<td>2%</td>
<td>1%</td>
<td>1%</td>
</tr>
</tbody>
</table>

### Dust Level Rating Scale:
- (0)-No dust
- (1)-No Visible but audible dust on windshield
- (2)-Light airborne dust
- (3)-Significant, heavy airborne dust
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Dust on Local Streets

• The dust the community is experiencing on the local streets is due to the track-out and dust from the tires, not the lack of tarps.

• Public Works is continuing to add and adjust measures to significantly reduce tracking from the tires.

Tire wash at Devil’s Gate Reservoir exit
Dust on Local Streets

• Once the tracking problem with the tires is solved, there should be a vast improvement in dust.

• Public Works is confident that tarping will not be required.
Questions?

For More Information:
Subscribe to our e-mail list to receive updates on the project.

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