DOZENS KILLED IN LANDSLIDE

60 football fields worth of construction waste buries town

Construction waste at a dump site in Shenzhen, China reached 100 meters high before heavy rains fell, and it slid onto the surrounding city, killing at least 58 and destroying 33 buildings. The height of the debris covering the town reached 4 stories high. More than 10,600 rescuers continue to work to free those trapped and clean up the town.

“This disastrous slide involved the slipping of an accumulation of construction waste, not the sliding of a hill. This was not a natural geological disaster, but an industrial safety accident.”

- Investigators, as reported by Xinhua, China's official news agency

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**Problem**

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
<th>Where</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem(s)</td>
<td>Date</td>
<td>Facility, site</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit, area, equipment</td>
</tr>
<tr>
<td>Task being performed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Impact to the Goals**

<table>
<thead>
<tr>
<th>Safety</th>
<th>Environmental</th>
<th>Customer Service</th>
<th>Regulatory</th>
<th>Production/ Schedule</th>
<th>Property/ Equipment</th>
<th>Labor/ Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Many unregistered migrant workers in the area</td>
<td>Spread of waste over significant area</td>
<td></td>
<td></td>
<td></td>
<td>33 buildings destroyed</td>
<td>&gt;10,600 involved in rescue effort</td>
</tr>
</tbody>
</table>

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**Analysis**

**Cause Map**

Add detail as information becomes available.

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**Solutions**

Actions taken in other cities in similar circumstances include charging more for dumping debris in a hope to encourage the reuse of materials and monitoring dump trucks with GPS to minimize illegal dumping. These actions weren't implemented in Shenzhen prior to the landslide, but this accident may prompt their implementation in the future.

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**Cause Mapping**

Problem Solving • Incident Investigation • Root Cause Analysis

**Step 1** Problem

What's the Problem?

**Step 2** Analysis

Why did it happen?

**Step 3** Solutions

What will be done?