Mobile GIS makes SD1 more efficient

2017 ESRI UC
Jerry Biedenbender, GIS Manager
SD1
Background

- **SD1**
  - Service area
    - Boone, Kenton, & Campbell Counties
      - These counties border the Ohio river
  - Sewer
    - 1,600 +/- miles of pipe
    - 46,000 +/- Structures
    - 121 pump Stations
    - 15 flood Stations
    - 3 Regional Treatment Plants
    - 8 Small Package Plants
  - Storm
    - 440 +/- Miles of Pipe
    - 32,000 +/- Structures
Background Continued

• ESRI and Lucity users since the late 90’s

• February 2015 Deployed Lucity mobile Android
SD1’s Workforce
<table>
<thead>
<tr>
<th>Benefits</th>
<th>Obstacles to overcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Streamline processes</td>
<td>• Screen issues</td>
</tr>
<tr>
<td>• Saves time</td>
<td>• Camera issues</td>
</tr>
<tr>
<td>• Speed</td>
<td>• Verizon Cell connection issues</td>
</tr>
<tr>
<td>• Accuracy</td>
<td>• Battery issues</td>
</tr>
<tr>
<td>• Data integrity</td>
<td>• Lack of IT support</td>
</tr>
<tr>
<td>• Real time connections</td>
<td>• Photo Size.</td>
</tr>
<tr>
<td>• Linked Photos</td>
<td></td>
</tr>
</tbody>
</table>
Structure inspections
SSO Inspections
Field Locations
Trouble calls
Other processes

- BMP Asset inspections
- Nasal ranger tests
- Aerial Pipe Inspections
- Pump Station Inspections
- Pump Inspections
- Pump Readings
- Generator Readings
- Plant equipment assessment
Struggles

• Photo trickery
• Linked documents
• Cell Service
• Users staying logged in.
• Offline mode setup
• Default views
Questions?

• Contact Info

Jerry Biedenbender, GIS Manager
SD1
1045 Eaton Drive
Fort Wright, KY 41017
859-547-1655
jbiedenbender@sd1.org