BMP Implementation

Field Inspections

City of Phoenix
Street Transportation Department

Rob Walsh
GIS Manager
BMP Implementation
Field Inspections

- Approximately…..

- 23 Thousand Inlets
  (Catch Basins, Grated Inlets and Slotted Drains)

- 860 Miles of Storm Drain Mains

- 520 Square Miles
BMP Implementation
Field Inspections

- Old Inspection BMP
  - Staff only records where inlets have been cleaned
- Paper Quarter Section Maps
- Locations recorded by hand on paper
- Data is entered into the Work Request system when staff returns to office from paper notes
BMP Implementation
Field Inspections

- New Inspection BMP
  - Staff records all locations, inspected and/or cleaned
  - New system has dynamically updated maps on IPAD
  - Location information dynamically populated using GIS
  - Work Request information entered on IPAD sent directly to Work Request System
BMP Implementation
Field Inspections

- Requirements / Solutions
  - IPAD selection due to limited IOS versions, reliability (Otterbox and Strap)
  - ArcGIS Online used to publish web application
  - ArcGIS Server used to do spatial queries to obtain location information
  - Existing work request system enhanced to run on an IPAD
- Web Map
- Data behind COP firewall VPN required
- ArcGIS Online Security
- Selected Catch Basin
- Passes Asset ID and Inlet Type
IPAD Data Collection Form

Auto fill

Attachments

- **Asset ID:** 10-27-674
- **Type:** CATCH BASIN
- **Location:** 200 W WASHINGTON ST
- **Quarter Section:** 10-27
- **Council District:** 7
- **Activity:** CLEANED
- **Section:** SOUTHEAST
- **Assigned To:** ROB WALSH
- **Completed:** 05/22/14
- **Rodded:** 20 linear feet
- **Debris Removed:** 0.2 tons
- **Notes:**

Attachments:
- Relating the Inspections to a Work Request
- Desktop
- Foreman

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**pending storm drain inspection summary**

<table>
<thead>
<tr>
<th>All</th>
<th>Inspected</th>
<th>Inspected By</th>
<th>Type</th>
<th>Location</th>
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<tbody>
<tr>
<td></td>
<td>5/22/2014</td>
<td>ROB WALSH</td>
<td>INSPECTED</td>
<td>GIBSON LN(N/O) BRIDGE &amp; 43RD AVE</td>
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<td>5/22/2014</td>
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<td>ROB WALSH</td>
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<td>5TH AVE BRIDGE &amp; DUNLAP AVE</td>
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</tbody>
</table>
- **Work Request - Example**

- **Add / Remove Inspections**

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**Work Request 12-108925**

Request: Storm Drain Inspections

On: 43RD AVE 4300W  From: HAPPY VALLEY RD 25000N  To: WHISPERING WIND DR 24700N

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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<th>Activity</th>
<th>Inspector</th>
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<th>Debris Removed</th>
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<tbody>
<tr>
<td>24819 N 43RD AVE</td>
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<td>CATCH BASIN</td>
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- Reporting
- Pending (No Work Request Assigned)
- Daily, Monthly, Annual Reports
## Monthly Storm Drain Inspection Summary

For The Month Of January 2014

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<tr>
<th>Location</th>
<th>Date</th>
<th>Type</th>
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<tbody>
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</table>

**Section Subtotal**

- Cleaned: 3
- Inspected: 9
- Total: 105 ft
- Debris Removed: 1.5 tons

**Totals**

- Cleaned: 14
- Inspected: 105
- Total: 818 ft
- Debris Removed: 6.3 tons
Questions?

Field Inspection BMP

City of Phoenix
Street Transportation Department

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