



# West Valley City, Utah GIS Applications:

## Integrating ArcGIS Server & Enterprise Applications

By Jeni Siebeneck  
GIS Administrator

# History & Background

- West Valley City, Utah:
  - 2<sup>nd</sup> largest in Utah – 130,000 pop
- About 35 Square Miles
- About 35,000 Parcels
- ESRI – ArcGIS (Basic & Advanced), ArcSDE, ArcGIS Server, AGOL, ArcReader, GIS WebMaps
- Cityworks, Spillman, SIRE, GEMS (MsGovern), etc.

# GIS Web Map Applications

- ArcGIS Viewer for Silverlight:
  - Parcel Viewer
  - Public Works: Sanitation Can Management, Storm Water Management, Streetlight Management
  - Parks & Rec Asset Management
  - Code Enforcement Case Tracking & Survey
  - Graffiti Incident Management

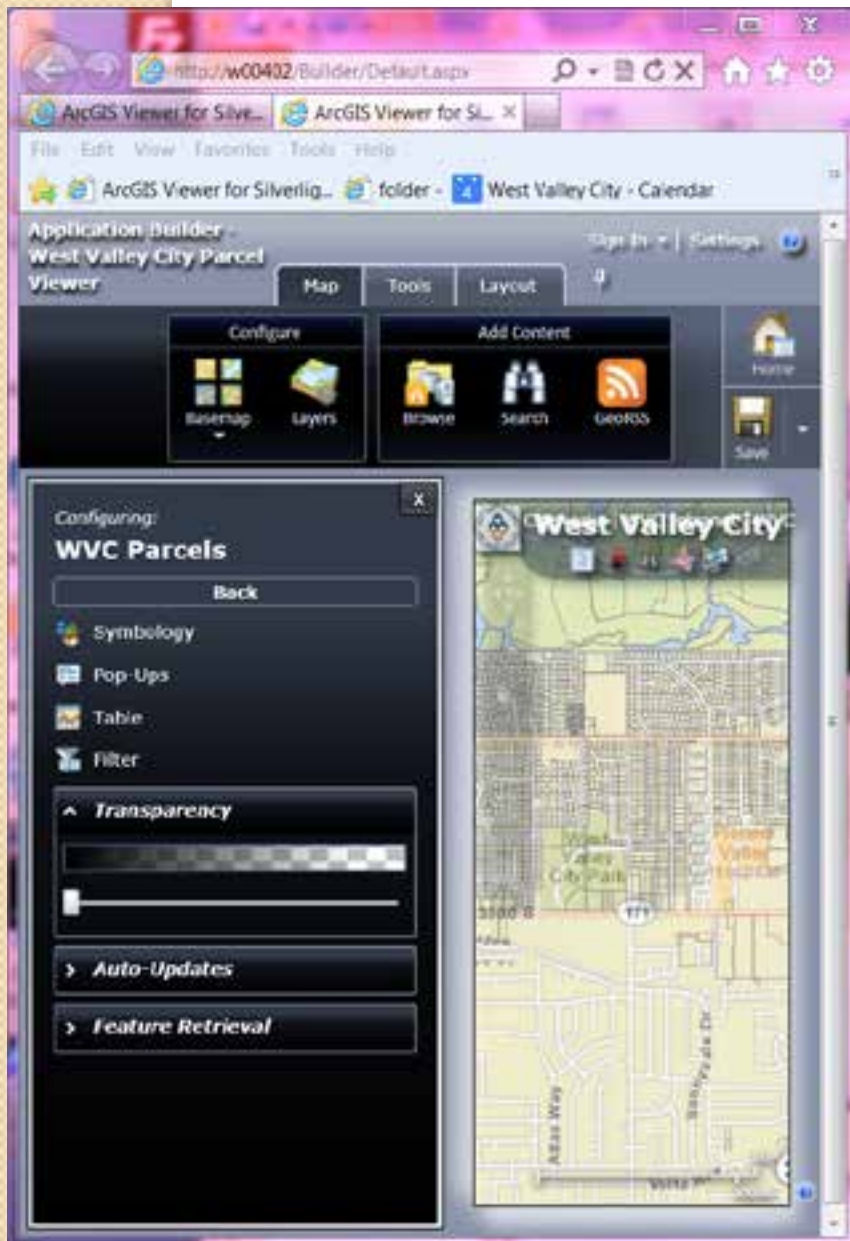
# ArcGIS Viewer for Silverlight

The screenshot shows a web browser window displaying the 'ArcGIS Viewer for Silverlight - Application Builder' interface. The browser's address bar shows the URL 'http://w00402:80/Builder/Default.aspx'. The page features a dark header with the application title and a 'Create New Application' button. Below the header, there is a section titled 'Current Viewer Applications' which contains a table listing various applications and their corresponding URLs.

Name	URL
West Valley City Parcel...	http://w00402:80/Apps/West Valley City Parcel Viewer
WVC Sanitation Can...	http://w00402:80/Apps/WVC Sanitation Can Management
WVC Streetlight...	http://w00402:80/Apps/WVC Streetlight Management
WVC Parks Management	http://w00402:80/Apps/WVC Parks Management
WVC Graffiti Incidents	http://w00402:80/Apps/WVC Graffiti Incidents
WVC Code Enforcement...	http://w00402:80/Apps/WVC Code Enforcement Case Tracking
WVC Storm Water...	http://w00402:80/Apps/WVC Storm Water Management

# ArcGIS Viewer for Silverlight

The screenshot displays a web browser window with the URL <http://w00402/Builder/Default.aspx>. The browser's address bar and tabs show the application title "Application Builder - West Valley City Parcel Viewer". The application interface includes a menu bar with "File", "Edit", "View", "Favorites", "Tools", and "Help". Below the menu bar is a toolbar with "Map", "Tools", and "Layout" tabs. A central panel contains icons for "Configure" (with sub-options "Background" and "Layers") and "Add Content" (with sub-options "Frame", "Search", and "Feeds"). A "Home" button is located in the top right corner. The main content area features a map titled "West Valley City Parcel Viewer" showing a street grid with labels for "West Valley City", "Cannonville Blvd", "W 3500 S", and "W 2800 S". The map also displays "West Valley City Park", "Hillside Park", and "Cannonville Golf Course". The Esri logo is visible in the bottom right corner of the map area.



ArcGIS Viewer for Silverlight

# ArcGIS Viewer for Silverlight

Application Builder - West Valley City Parcel Viewer

Configuring: **WVC Parcels**

- Back
- Symbology
- Pop-Ups
- Table
- Filter
- Transparency
- Auto-Updates
- Feature Retrieval

Disable pop-ups

Show pop-ups  on click  on hover.

Header: Address

Visible	Name	Alias
<input type="checkbox"/>	OBJECTID	OBJECTID
<input checked="" type="checkbox"/>	WVCID	WVCID
<input type="checkbox"/>	WVC_ID	WVC_ID
<input type="checkbox"/>	WVCID_1	WVCID_1
<input checked="" type="checkbox"/>	APN	APN
<input checked="" type="checkbox"/>	Land_Use	Land_Use
<input checked="" type="checkbox"/>	Zone	Zone
<input checked="" type="checkbox"/>	Zone_Descr	Zone_Descr
<input checked="" type="checkbox"/>	Subdivisio	Subdivisio

Clear All

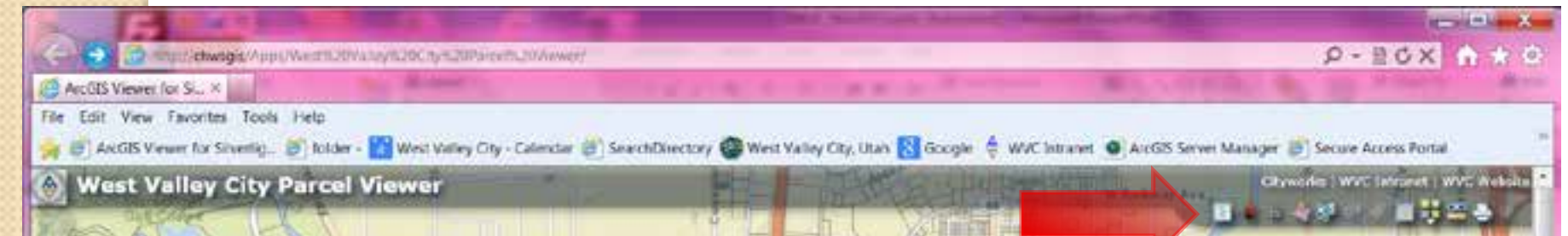
Change Title

Title: West Valley City Parcel Viewer

Links

Display Text	URL
Cityworks	<a href="http://chwsocityworks/cityworks">http://chwsocityworks/cityworks</a>
WVC Intranet	<a href="http://Tomcat.wvc-ut.gov/intranet">http://Tomcat.wvc-ut.gov/intranet</a>
WVC Website	<a href="http://www.wvc-ut.gov">http://www.wvc-ut.gov</a>

Close



**Map Contents**

- WVC Parcels
- WVC Streets
- City Boundaries

**LocateAddress**

Enter Address Information

Address:

City:

State:

Zip:

Find

**Measure**

Draw shapes to measure | Select features to measure

Select a shape to draw

**Print**

Title:

Description:

Width:

Height:

Layout:

Print

**Attribute Query**

Where clause:

Execute

**Attributes of WVC Parcels**

OBJECTID	WVCID	WVC_ID	WVCID_1	A/PN	Land_Use	Zone	Zone_Descr	subdivisio	Lot_	Acnrage	Owner_Name
32	37904	37904	37904	1532351028	SINGLE FAM	R-1-B	SINGLE FAMILY RESIDENTIAL	HORIZON MEADOWS	2	0.18	COMMUNITY DEVELOPERS
41	18145	18145	18145	1532251042	SINGLE FAM	RB	RESIDENTIAL BUSINESS			0.25	THE FAMILY SUPPORT CE
103	32049	32049	32049	1531477029	SINGLE FAM	R-1-B	SINGLE FAMILY RESIDENTIAL	COUNTRY MEADOWS PLAT F		0.18	GILL, AWYAR, S

Records: 0 out of 3266 Selected



# WVC Parcel Viewer

**2577 W ROBIN RD**

Building_ID	003060
TAX_VALUE	90860
GP_Code	GP-HDM
GP_Desc	Medium Density Residential
County_Code	CITY-112
County_Desc	R - Duplex
Update_Date	201307
Cityworks Link	<a href="http://cityworks.wvc.utah.gov/cityworks/Cityworks/US/Land/Parcel/AssociatedCases.aspx?InquiryTypeId=1&amp;ParcelId=48288">http://cityworks.wvc.utah.gov/cityworks/Cityworks/US/Land/Parcel/AssociatedCases.aspx?InquiryTypeId=1&amp;ParcelId=48288</a>

# WVC Parcel Viewer

The screenshot displays a web browser window with the URL <http://cityworks.wvc-ut.gov/cityworks/CWP/Permit/LU/Land/Page/LUAssociatedCases.aspx?i=nd>. The page title is "Permitting - Land A...". The browser's address bar shows the URL, and the page content includes a navigation menu with "File", "Edit", "View", "Favorites", "Tools", and "Help". Below the menu is a search bar and several icons for "ArcGIS Viewer for Silverlig...", "folder - West Valley City - Calendar", "SearchDirectory", "West Valley City, Utah", and "Google".

The main content area features a "Flags" section with a "RENTAL : Rental Property [1]" label. Below this is a tabbed interface with tabs for "Summary", "Object", "Address", "People", "Zone", "Zone Hist.", "Geo", "Flag", "Conditions", "Notes", "Cases", "Establ", "Project", "Str.Class", "Struct", and "Uses". The "Cases" tab is active, showing a table of cases for Object ID: 1528404002. The table has columns for "Number", "Type", "Type Description", "Sub Type", "Sub Type Description", and "Status".

Number	Type	Type Description	Sub Type	Sub Type Description	Status
06-0001860	CE	Code Enforcement			DONE
06-0002553	ANIMAL	Animal Control			DONE
06-0003702	ANIMAL	Animal Control			OPEN
19760196	ZS	SUBDIVISION APPLICATIO...			DONE
19870005	ZGPZ	GENERAL PLAN/ZONE CHAN...			DONE
200903852	CE	Code Enforcement			DONE
201302594	CE	Code Enforcement			DONE

At the bottom of the table, there is a "Size: 10" dropdown, a "Go" button, navigation arrows, "Page: 1" of "7", "Found: 7", and "Displaying: 1 to 7".

# WVC Sanitation Can Management

Map Contents

- WVCans
- WVC Parks
- WVC Streets
- City Boundaries

1971 W 3300 S

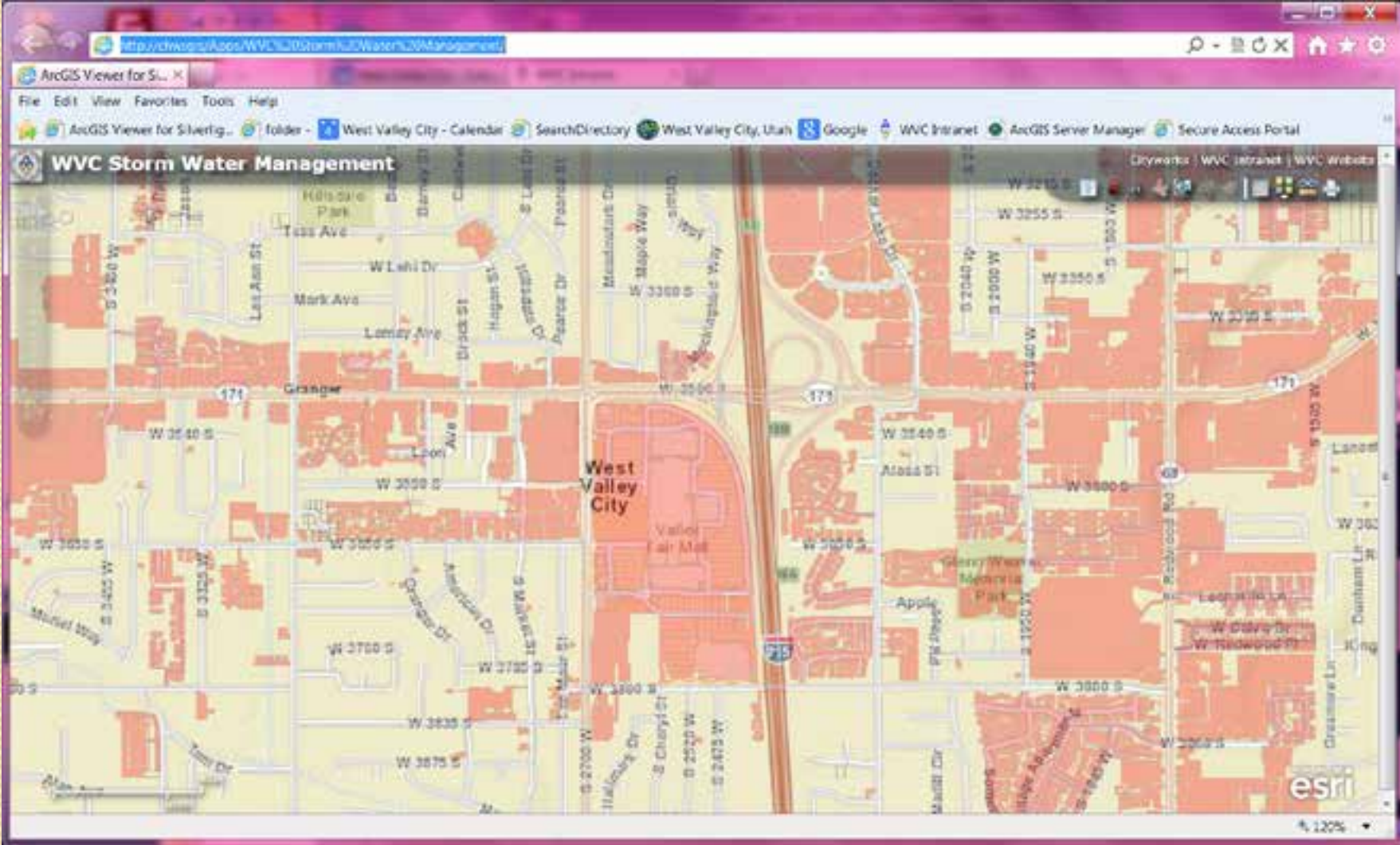
APN	4527353010
ADDRESS	1971 W 3300 S
CANID	5
HC_CITY	1
GC_CITY	2
ZIP	8
RecycleDay	Week 6 - see schedule
RECYCLE	Monday
RECYCLE2	2nd Monday
LegacyID	(25C42045-2279-4502-93F0-2018E13F5A1F)

Attributes of GIS\_sde.GIS.WVCans\_objects related to 1971 W 3300 S

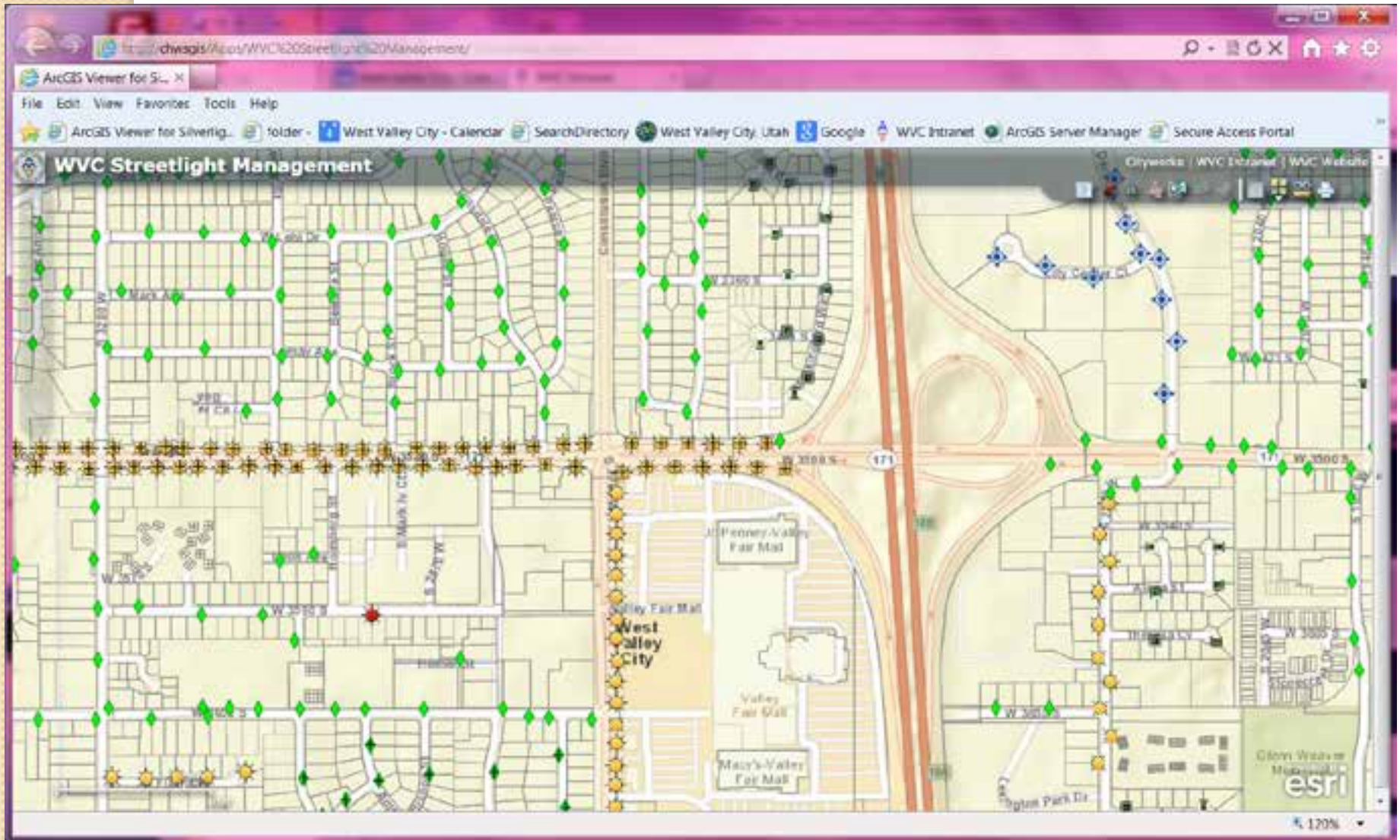
GUID	APN	CANID	WD	EOB	REC	RECType	MName	Status	Notes	GlobalID	LegacyID	LstM
	4527353010	45727								{22ACC37C-B0FC-442D-83CA-635A6A37BF08}	45727	
	4527353010	46096								{1D11C2D5-0E0F-47CF-5A7E-549C097FED8D}	46096	
	4527353010	89626917								{A0D15651-428F-4CCD-9B0C-FB5CD71556AC}	89626917	

Record: 0 Records (0 out of 3 Selected)

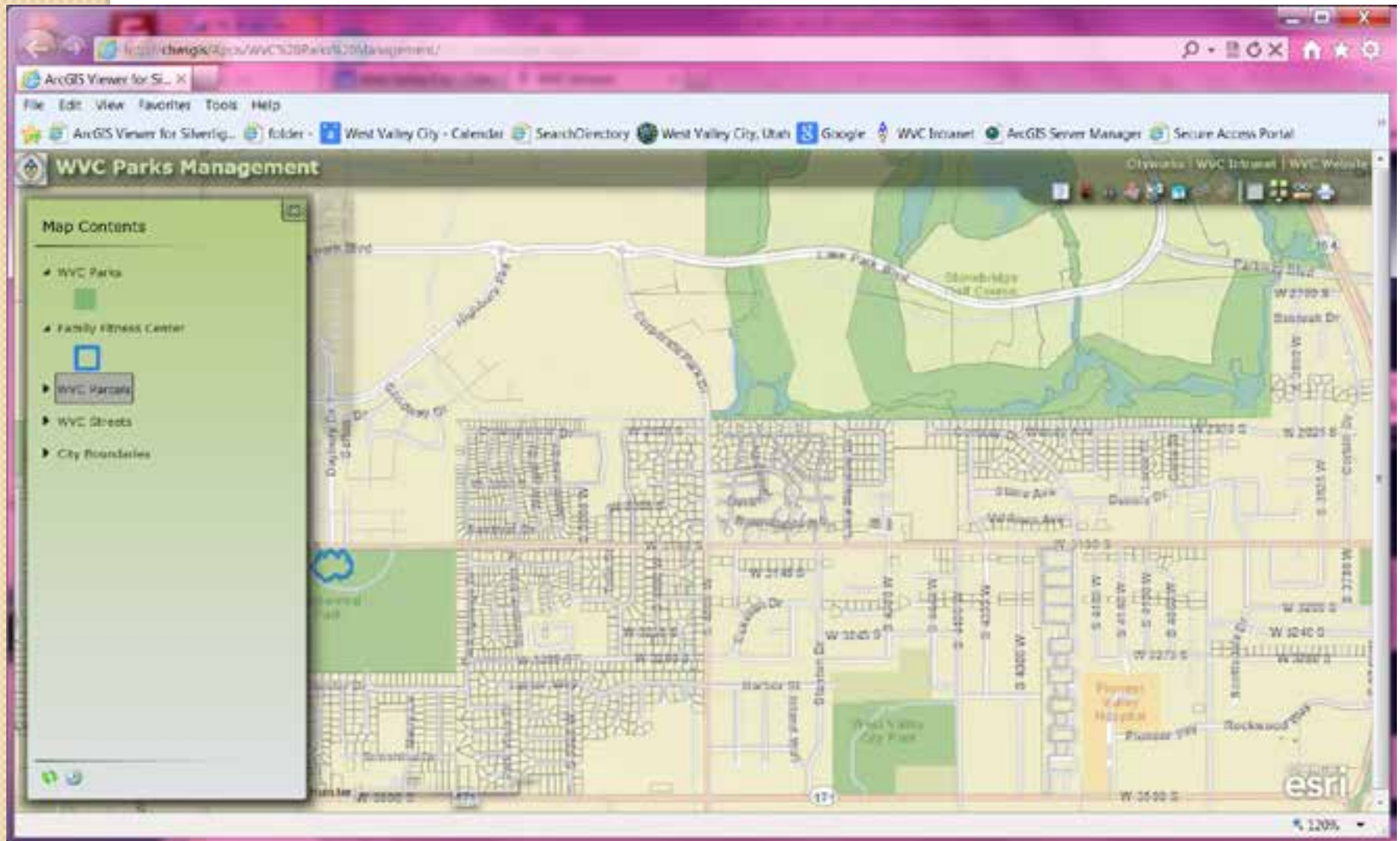
# WVC Storm Water Management



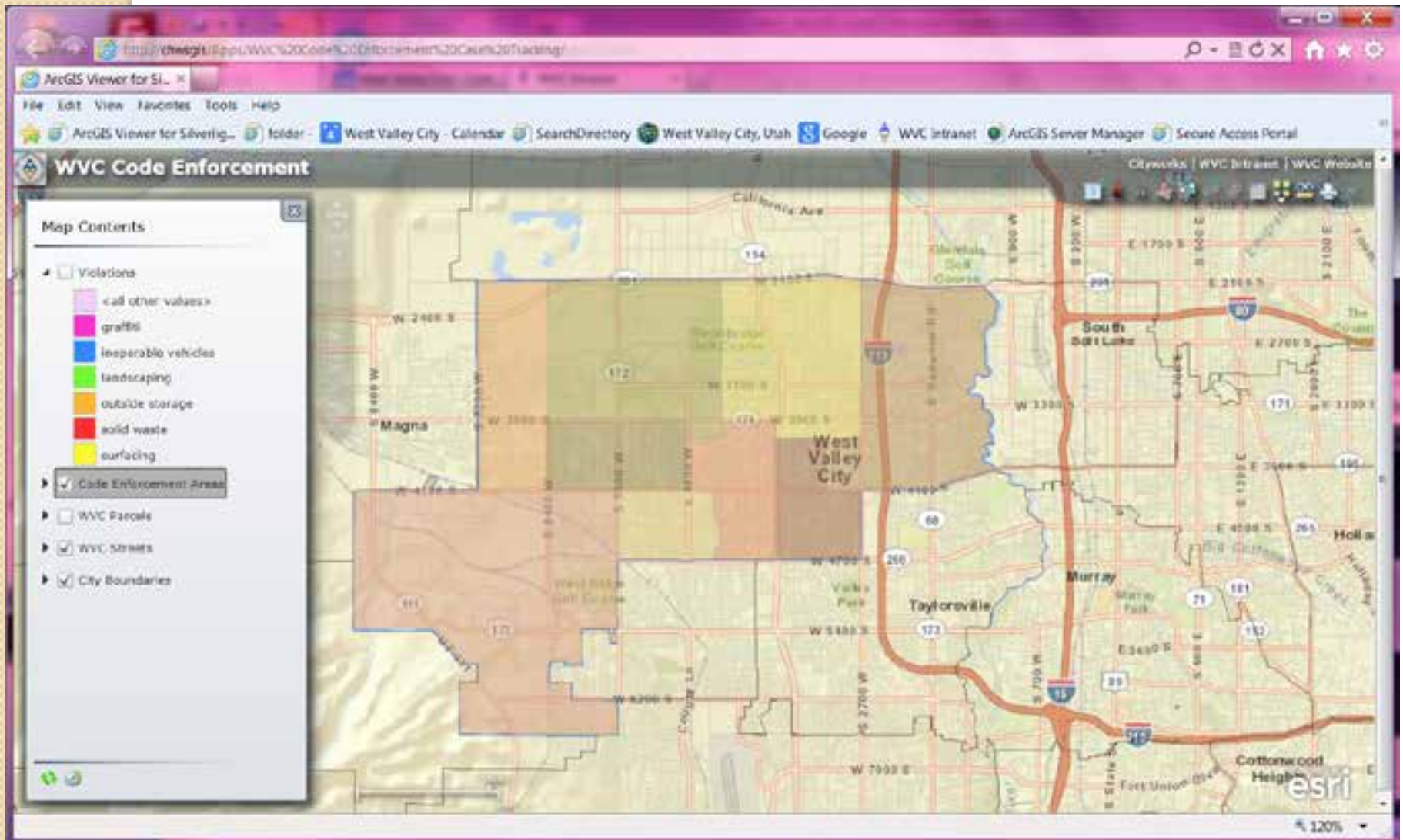
# WVC Streetlight Management



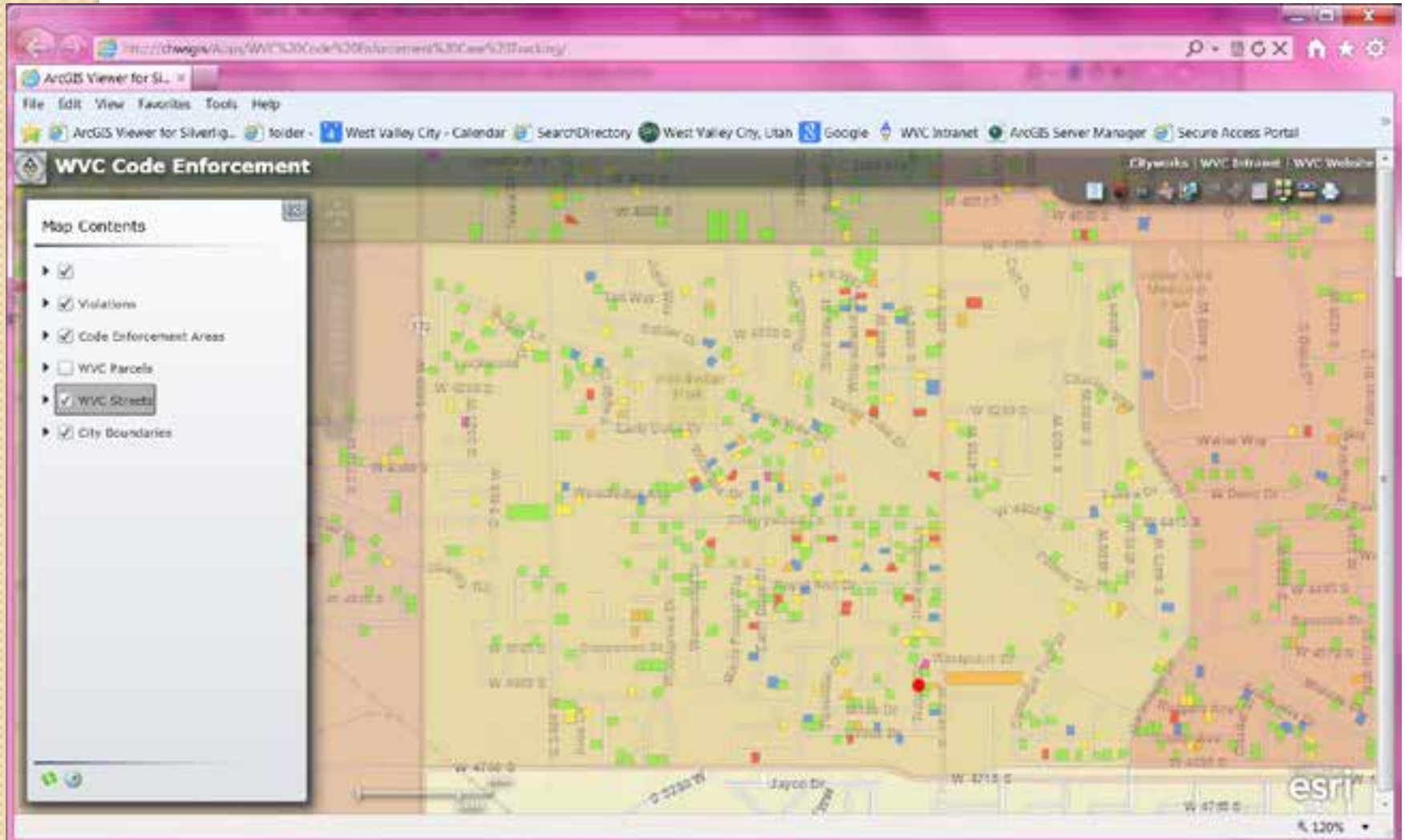
# WVC Parks and Rec Management



# WVC Code Enforcement Case Tracker



# WVC Code Enforcement Survey





# Cityworks

The screenshot displays the Cityworks web application interface in a browser window. The address bar shows the URL: <http://cityworks.wcc-ut.gov/Cityworks/CWPermissions/CasePages/CW.aspx?CaseID=1178416&Case#>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The address bar also shows several search engines and services: ArcGIS Viewer for Silverlig..., folder - West Valley City - Calendar, SearchDirectory, West Valley City, Utah, and Google.

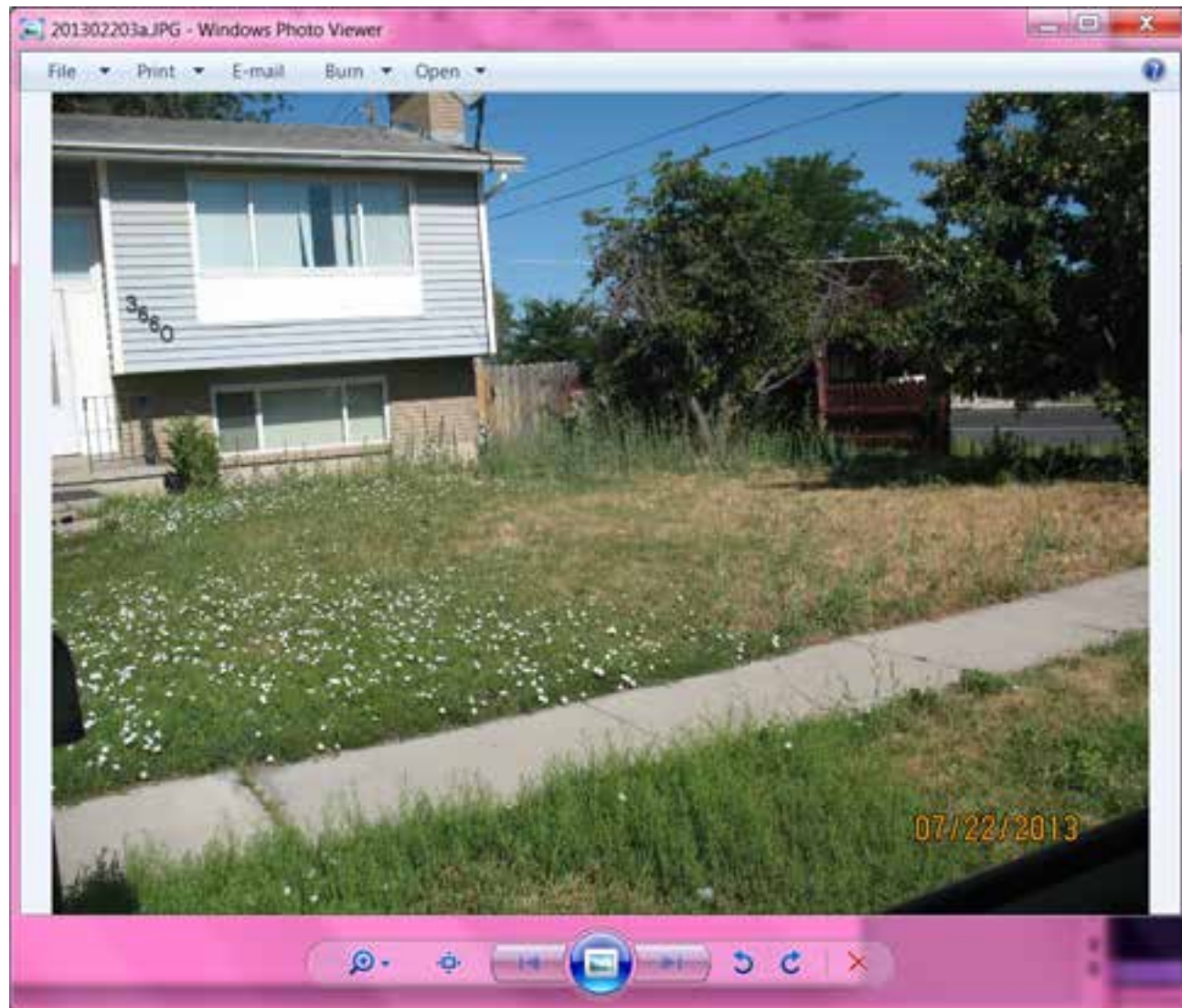
The main content area is divided into several sections:

- People:** A section with a search bar (Size: 10, Go) and navigation controls. It shows "Found: 0" and "Displaying: 1 to 1".
- Violations:** A section with a search bar (Size: 10, Go) and navigation controls. It shows "Found: 0" and "Displaying: none".
- Violations Table:** A table with columns: Violation Type, Violation Description, Date Issued, and Date Completed. It contains two rows:

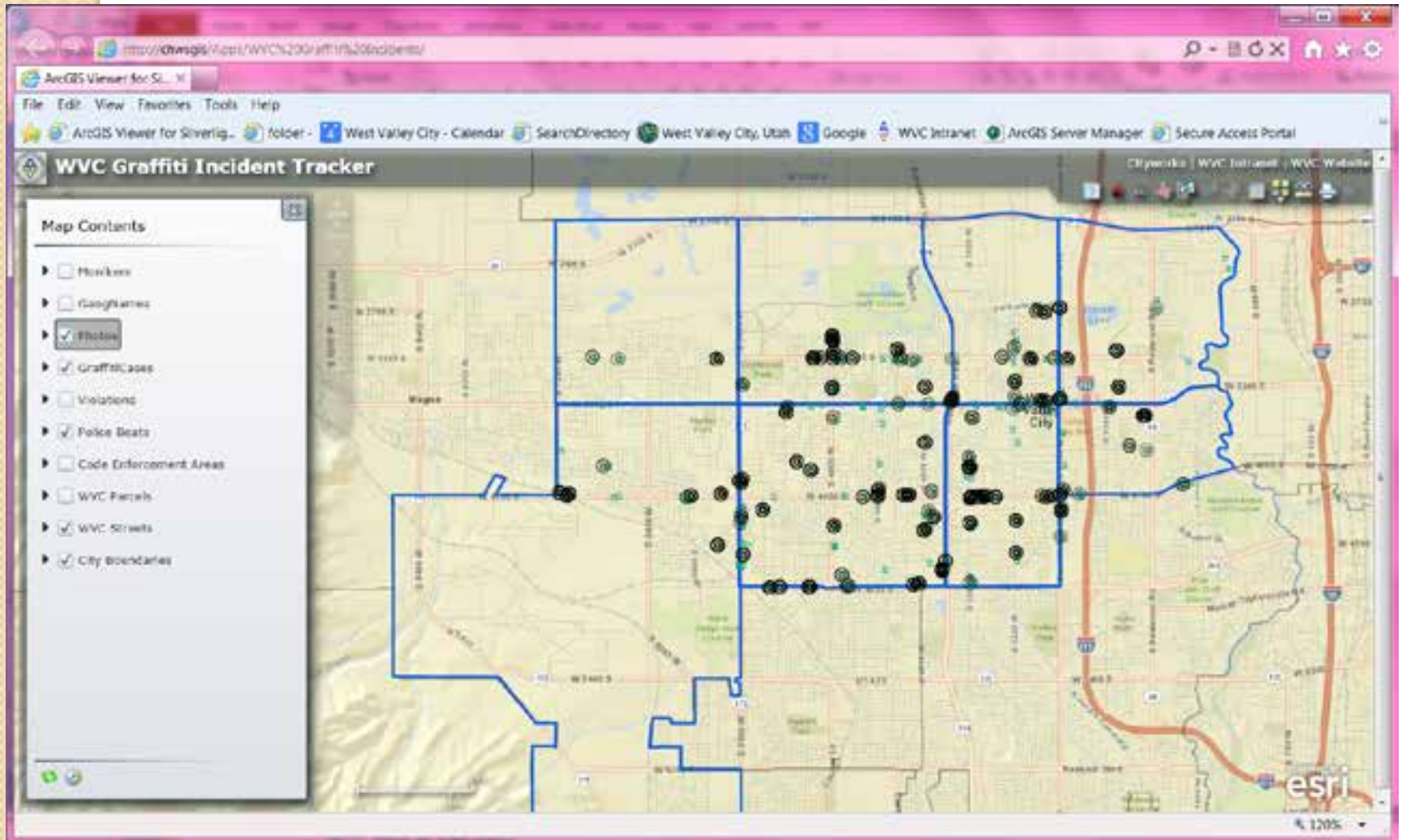
Violation Type	Violation Description	Date Issued	Date Completed
27-1-100	BUSINESS LICENSE REQUIRED	3/22/2013	
24-0-106	Standards for Weed Control* (Section 6.0	7/22/2013	
- Workflow:** A section with a search bar (Size: 10, Go) and navigation controls. It shows "Found: 1" and "Displaying: 1 to 1". It contains a table with columns: Description, Result, Target Start Date, Due/Scheduled, and M. It contains 11 rows:

Description	Result	Target Start Date	Due/Scheduled	M
First Contact	OK	07/22/13 4:47P	07/23/13 4:47P	1-2
Follow up	Violation	07/22/13 4:52P	08/05/13 4:52P	1-2
Notice of Violation	Notify	08/12/13 10:00A	08/13/13 10:00A	2-3
Compliance Inspection	NO INSPECT	08/12/13 10:00A	08/13/13 10:00A	2-3
Case Review	ACE	08/26/13 8:14A	08/27/13 8:14A	2-3
Affidavit of NonCompliance	SGNETDACE	08/26/13 8:14A	08/27/13 8:14A	3-4
Legal Review of CE Case	FILE	08/26/13 8:14A	08/27/13 8:14A	3-4
Process Case		08/03/13 12:00A	09/04/13 8:56A	4-5
Hearing Notice Sent		08/03/13 8:56A	09/04/13 8:56A	4-5
Notice Returned		08/03/13 8:56A	09/04/13 8:56A	4-5
Notice Posted		08/03/13 8:56A	09/04/13 8:56A	4-5
- Flags:** A section with a search bar (Size: 10, Go) and navigation controls. It shows "Found: 11" and "Displaying: 1 to 11".

# Cityworks - Photos



# Graffiti Incident Tracking

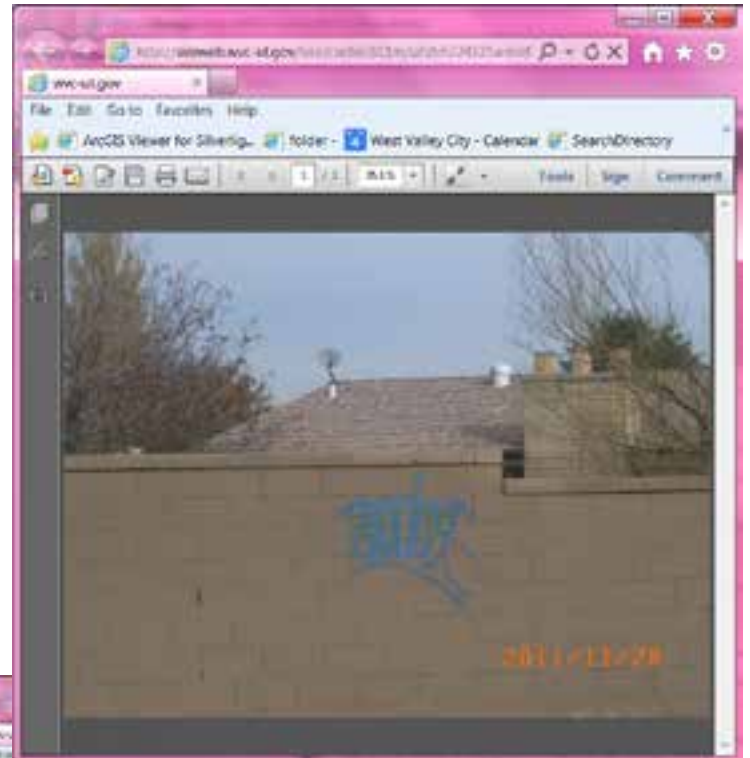


# Graffiti Incident Tracking

The screenshot displays the 'WVC Graffiti Incident Tracker' web application. The interface includes a browser window at the top with the URL <http://chivgis/ArcGIS/arcgis/rest/services/WVC%20Graffiti%20Incidents/>. Below the browser is the application's menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar with various navigation and search tools. The main map area shows a street grid with several black circular markers representing graffiti incidents. A 'Map Contents' panel on the left lists layers such as 'Markers', 'Langframes', 'Photos', 'Graffiti Cases', 'Violations', 'Police Beats', 'Code Enforcement Areas', 'WVC Parcels', 'WVC Streets', and 'City Boundaries'. A popup window titled '2 of 12' is open over one of the markers, displaying the following information:

Graffiti_Coord	40.68197777
photo_Link	<a href="http://arcweb.wvc-ut.gov/arc/document/view.aspx?viewtype=naive&amp;cablnet=Graffiti_Photos&amp;sun=a74571b6578041c779d01e20560fcaaf&amp;fileid=5575143&amp;orig_exten=.JPG">http://arcweb.wvc-ut.gov/arc/document/view.aspx?viewtype=naive&amp;cablnet=Graffiti_Photos&amp;sun=a74571b6578041c779d01e20560fcaaf&amp;fileid=5575143&amp;orig_exten=.JPG</a>

The popup window also includes a 'target="\_blank">View Filter' link. The bottom right corner of the application shows the ESRI logo and a zoom level of 120%.



# GIS Web Map Applications

- What's Next?
  - Police Incidents
  - Fire Calls
  - Mobile Applications
    - Windows/Android/iOS
  - Public Portal
  - Etc.



# West Valley City, Utah GIS Applications:

## Integrating ArcGIS Server & Enterprise Applications

By Jeni Siebeneck  
GIS Administrator  
West Valley City  
[Jeni.siebeneck@wvc-ut.gov](mailto:Jeni.siebeneck@wvc-ut.gov)  
801-963-3354