

Forfeiture Mobile App

WWW.ALLEGANCOUNTY.ORG/GIS

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0.0.1 FORFEITURE DATA COLLECTION

PROBLEM AND ANALYSIS

Background

Treasurer department has an annual responsibility to properly document the tax forfeiture process. The LIS Department built an application in MS Access and MapInfo that consumed a daily export from BSA and was deployed to the field on a laptop. A digital camera was used for site photos and later imported into the laptop.

Statement of Problem

The current Tax Forfeiture workflow is built on MapInfo software and MS Access and executed on a laptop pc. Both MapInfo and MS Access are no longer supported in county workflows. ESRI software can be used to rebuild the workflow. *Forfeiture Data Collector Application, (Forfeiture App)* must be recreated in the ESRI framework.

Analysis

Forfeiture App will facilitate: *Mobile data collection on a handheld device,:* (**Mobile Interface**) and an *in office workflow to complete data processing,* (**Pre and PostProcessing**)

Mobile Interface

- Synchronize with data in the office (online)
- Collect data and photos of forfeiture sites (offline)
- Synchronize the collected data with data in the office (online)

Pre & Post Processing

- Produce and print a form for each site visited with required data and images

DESIGN OVERVIEW

Forfeiture Parcels is used through the workflow

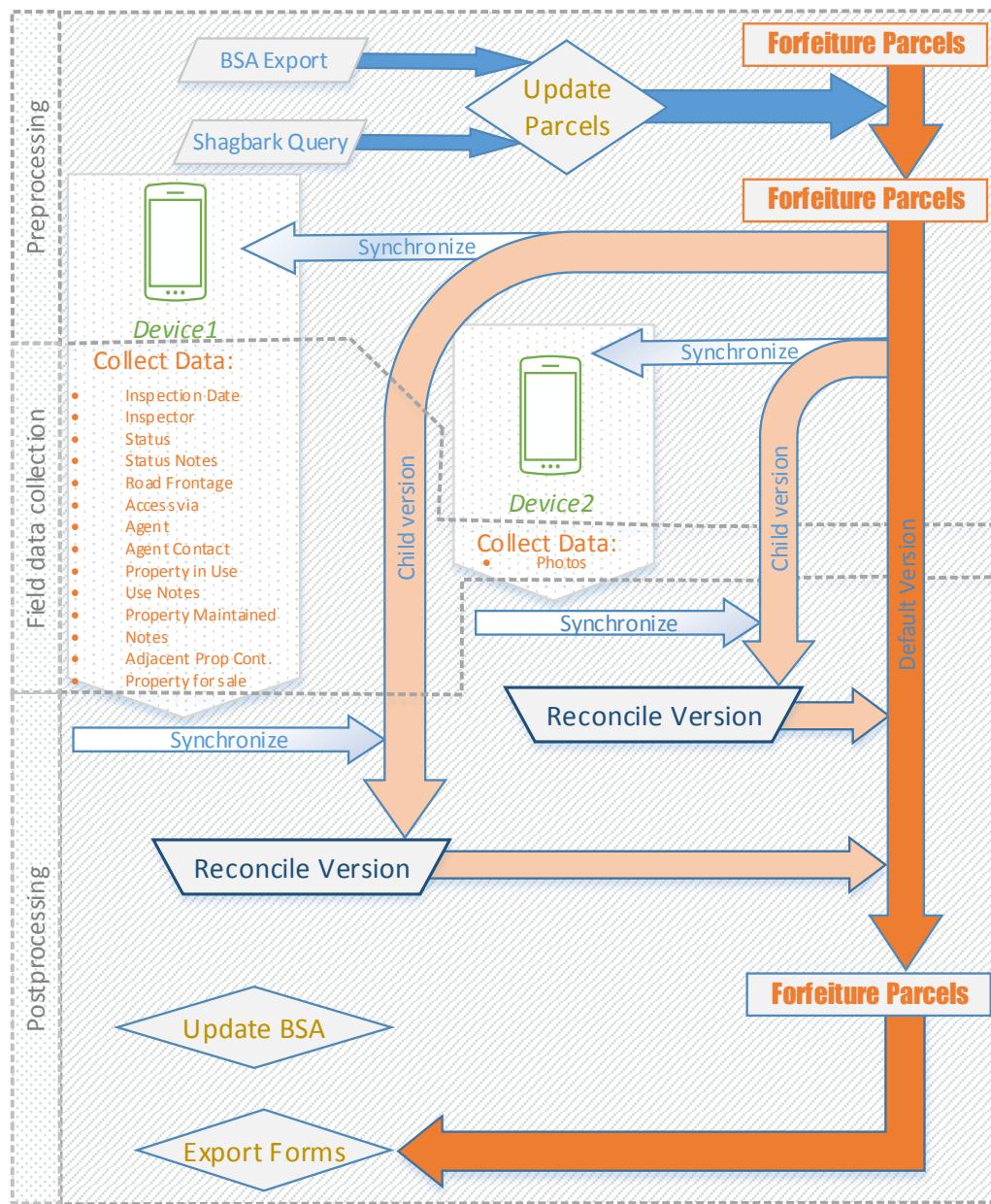


Figure 0.1: Project Design

Forfeiture App Summary

There are three parts to the daily routine:

1. Preprocessing (in the office):

- Export current forfeiture list from BSA
- Update Forfeiture Parcels with BSA export
- Update Forfeiture Parcels with contaminated sites information
- Synchronize Forfeiture Parcels to Mobile Interface

2. Field data collection with Mobile Interface:

- Aids in navigation
- Provides a Checklist of data points for each site
- Attaches photos for each site
- Save results for synchronization in post-processing

3. Post-processing (in the office)

- Synchronize data and images collected in Mobile Interface to Forfeiture Parcels
- Export form for each site
- Print form for each site
- Update BSA data

Technologies Used in The Forfeiture App

BSA Data

Details of parcels in the forfeiture process are managed in BSA Delinquent Tax.net. The Treasurer office does a BSA export of the parcels in need of a site visit in the pre-processing.

ArcGIS Desktop

Tools are designed to preprocess and post-process forfeiture parcel data for fieldwork. The user will execute a preprocess script tool that prepares the data for field deployment. After fieldwork, a post process script tool synchronizes data from the fieldwork with the live data on the Allegan County network.

ArcGIS Collector

A free mobile application developed and tested on Android is deployed to the field for data collection. The application is con-

figured to work offline (without an internet or cellular connection) by synchronizing before and after fieldwork. The user collects the necessary information on each forfeiture parcel in the field disconnected, and then uploads the changes when reconnected.

Enterprise Geodatabase

Live data from a publishing geodatabase (ACPub), running on SQL Server database server (acintsql01) provides access to Forfeiture Parcels

ArcGIS Portal

Forfeiture Parcels is served as a feature service (REST service) named TaxReversionParcels. A webmap on Portal, called the Forfeiture Field Map consumes the TaxReversionParcels exposing the data to editing. The Forfeiture Field Map is configured to work in the ArcGIS Collector App.

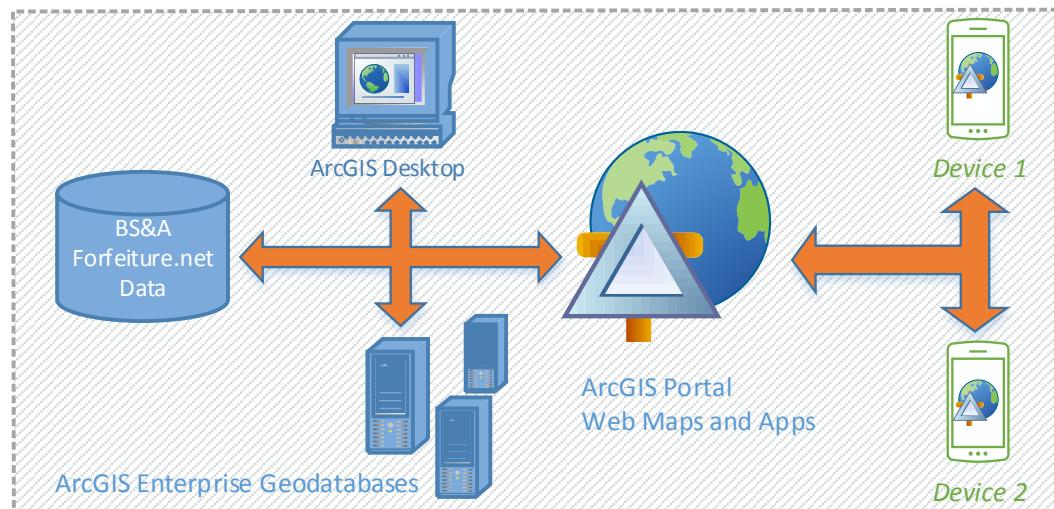


Figure 0.2: Technology Design

DATA DETAILS

The data is located in a geodatabase called ACPUB. ACPUB is on SQL Server AC-INTSQL01.

Forfeiture Parcels Data

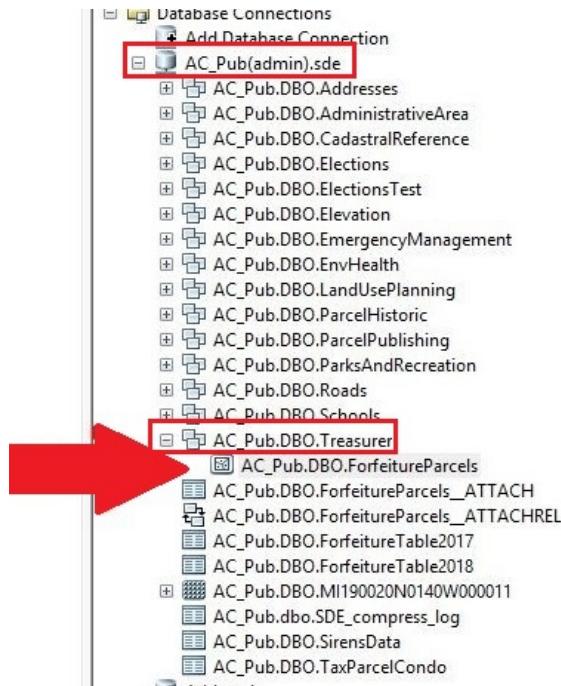


Figure 0.3: Live Data Location

Contamination Data

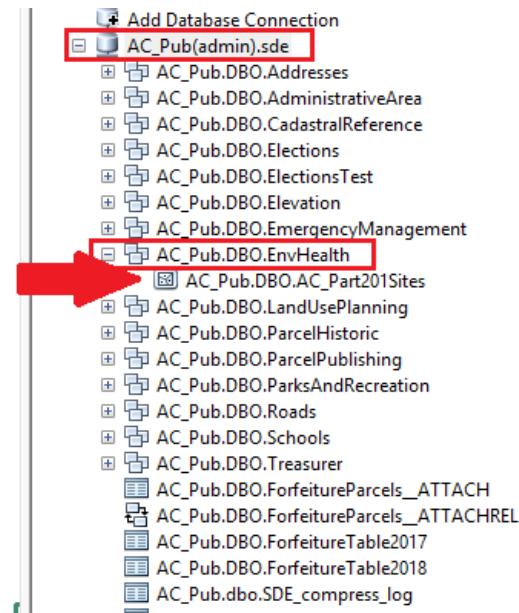


Figure 0.4: Contamination Feature Class

ForfeitureParcels Feature Class Details

Attribute Details			
Field Name	Field Alias	Entry Type	Note
PropertyNumber	Property Number	Prefilled	NA
Need2Print	Print Today	Dropdown	Yes or No
InspectionDate	Inspection Date	Autofill or Dropdown	NA
Inspector	Inspector	Dropdown	NA
Address	Address	Prefilled	NA
Status	Status	Dropdown	NA
StatusNotes	Status Notes	Open Entry	120Char
Roadfrontage	Road Frontage	Dropdown	Yes or No
AccessVia	Access Via	Open Entry	30Char
Agent	Agent	Open Entry	30Char
AgentContact	Agent Contact	Open Entry	30Char
PictureComments	Picture Comments	Open Entry	50Char
PropertyInUse	Property In Use	Dropdown	Yes or No
UseNotes	Use Notes	Open Entry	120Char
PropertyMaintained	Property Maintained	Dropdown	Yes or No
PropMaintNotes	Property Maintained Notes	Open Entry	120Char
PropertyContaminated	Property Contaminated	Prefilled	Preprocessing
PropertyContaminatedNotes	PropertyContaminatedNotes	Prefilled	Preprocessing
AdjacentPropertyContaminated	Adjacent Property Contaminated	Prefilled	Preprocessing
AdjPropertyContaminatedNotes	Adj Property Contaminated Notes	Prefilled	Preprocessing
PropertyForSale	Property For Sale	Dropdown	Yes or No
GlobalID	GlobalID	NA	NA
PostedDate	Posted Date	Dropdown	Date
Posted	Posted	Prefilled	NA
InList	In List	Prefilled	Preprocessing
PostedInList	Posted In List	Prefilled	Preprocessing
Acres	Acres	Prefilled	NA
Class	Class	Prefilled	NA

Table 0.1: Dataset Details

Webmap Details

The Forfeiture Field Map is made up of a feature layer and a basemap.

The screenshot shows the 'Forfeiture Field Map' details page. At the top, there's a blue header bar with the map title and navigation tabs for 'Overview' (selected), 'Settings', and 'Edit'. Below the header is a thumbnail image of the Allegan County seal. To the right of the thumbnail, the map's description is provided: 'Map for field data collection in annual tax forfeiture processing' by 'bmey531' last modified on 'August 21, 2018'. A 'Web Map' link is also present. Below this section is a 'Description' heading with a placeholder text 'Add an in-depth description of the item.' Under the 'Layers' heading, there are two listed: 'TaxReversionParcels' and 'World_Street_Map', with 'World_Street_Map' being expanded to show its sub-layer 'World_Street_Map'. The 'Access and Use Constraints' section contains a placeholder text 'Add any special restrictions, disclaimers, terms and conditions, or limitations on using the item's content.'

Figure 0.5: Web Map Details

Feature Layer Details

TaxReversionParcels has been configured for offline use.

The screenshot shows the 'TaxReversionParcels' feature layer details page. It features a blue header bar with the layer name and navigation tabs for 'Overview' (selected), 'Data', 'Visualization', and 'Settings'. Below the header is a thumbnail image of a red and green patterned area. To the right, the layer's description is given: 'Map service exposing treasurer forfeiture data for edits' by 'bmey531' last modified on 'August 20, 2018'. A 'Feature Layer' link is shown. A 'Description' section with a placeholder follows. Under the 'Layers' heading, a single layer 'Tax Reversion Parcels' is listed with options to 'Open In' or view the 'Service URL'. The 'Access and Use Constraints' section includes a placeholder text 'Add any special restrictions, disclaimers, terms and conditions, or limitations on using the item's content.'

Figure 0.6: Feature Layer Details

Basemap Details

- A tiled basemap service is used
- The infoserv user credentials are used for sharing
- The url for the shared service is:

[https://tiledbasemaps.arcgis.com/arcgis/rest/
services/World_Street_Map/MapServer](https://tiledbasemaps.arcgis.com/arcgis/rest/services/World_Street_Map/MapServer)

The screenshot shows the ArcGIS Online interface for the 'World Street Map (for Export)' layer. At the top, there's a navigation bar with links for ArcGIS, Pricing, Map, Scene, and Help, along with a sign-in button and a search bar. Below the header, the title 'World Street Map (for Export)' is displayed, with a 'Overview' tab selected. To the right of the title are three buttons: 'Open in Map Viewer', 'Open in Scene Viewer', and 'Open in ArcGIS Desktop'. The main content area features a thumbnail map of a city area, a detailed description of the layer, and various metadata sections like Source, Size, and Owner.

Description

This layer is designed to support exporting small volumes of basemap tiles for offline use. The content of this layer is equivalent to World Street Map (with exceptions only in China and Korea at some levels of detail). This comprehensive street map includes highways, major roads, minor roads, one-way arrow indicators, railways, water features, cities, parks, landmarks, building footprints, and administrative boundaries, overlaid on shaded relief for added context. See [World Street Map](#) for more details..

The map service supporting this layer will enable you to export up to 150,000 tiles in a single request. For estimation purposes, this is large enough to support the export of:

- Large city (e.g. San Francisco) down to full level of detail at ~1:1,000 scale (Level 19)
- Medium size state or province (e.g. Colorado) down to scale of ~1:36,000 (Level 14)
- Medium to large country (e.g. Continental United States) down to scale of ~1:288,000 (Level 11)

This layer is not intended to be used to display live map tiles for use in a web map or web mapping application. To display map tiles, please use [World Street Map](#).

Service Information for Developers

To export tiles for World Street Map (for Export), you must use the instance of the World_Street_Map service hosted on the tiledbasemaps.arcgis.com server referenced by this layer (see URL in Contents below), which has the ExportTiles operation enabled. This layer is intended to support export of basemap tiles for **offline use** in ArcGIS applications and other applications

Details

Source: [Map Service](#)
Size: 1 kb
★ ★ ★ ★ ★

Owner

Esri
Managed by:
 esri

Tags

World, Global, Europe, North America, United States, Southern Africa, Asia, South America, Australia, streets, street map, tile package, basemap, highways, roads, transportation, landmarks, parks, community, community basemap, map, AFA250_base, current, esri_basemap, general availability, export

Figure 0.7: Basemap Source Description

HARD COPY RECORD

screenshots: arcmap map arcmap tools portal screenshots sql server mgt screen shots phone screenshots

ArcGIS Server

ADMINISTRATIVE MANUAL

Annual Setup

A new dataset for forfeiture parcels must be created each year.

The forfeiture information comes from BSA Forfeitures.net

Parcel geometry and other attributes comes from ACParcelsCombined

Update the Forfeiture Dataset

clear the features from the existing ForfeitureParcels dataset

- Use the Delete Feature Tools
- For Input Features:
 - Select ACPub.DBO.ForfeitureParcels

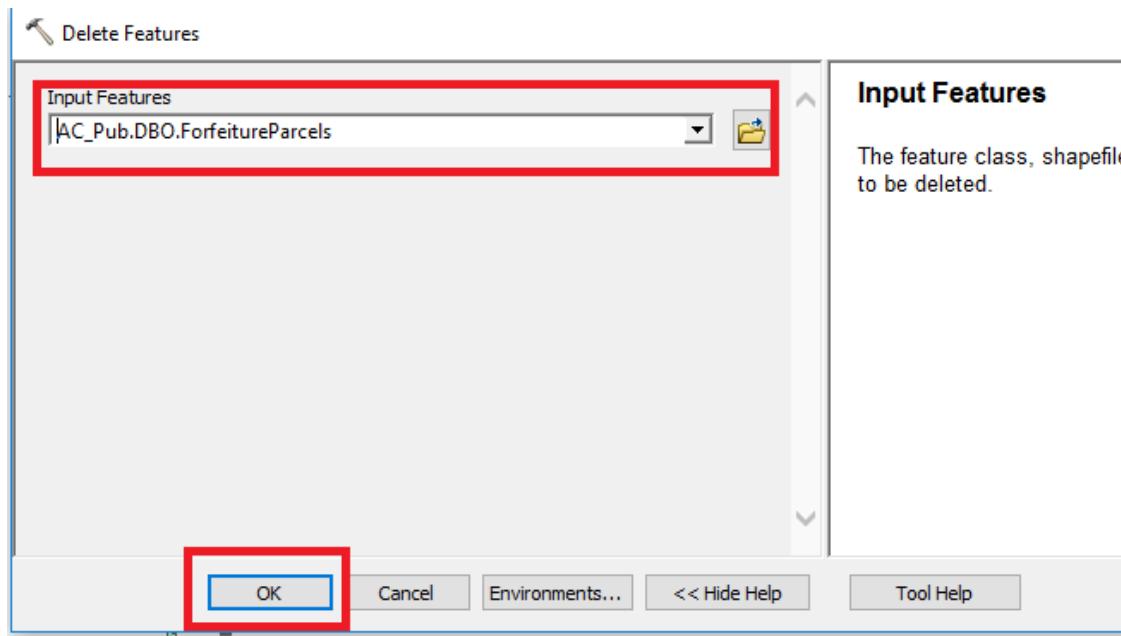


Figure 0.8: Delete Features

Press **OK**

Create a Table Query For the New Data

- File ⇒ Add Data ⇒ Add Query Layer
- Select your connection

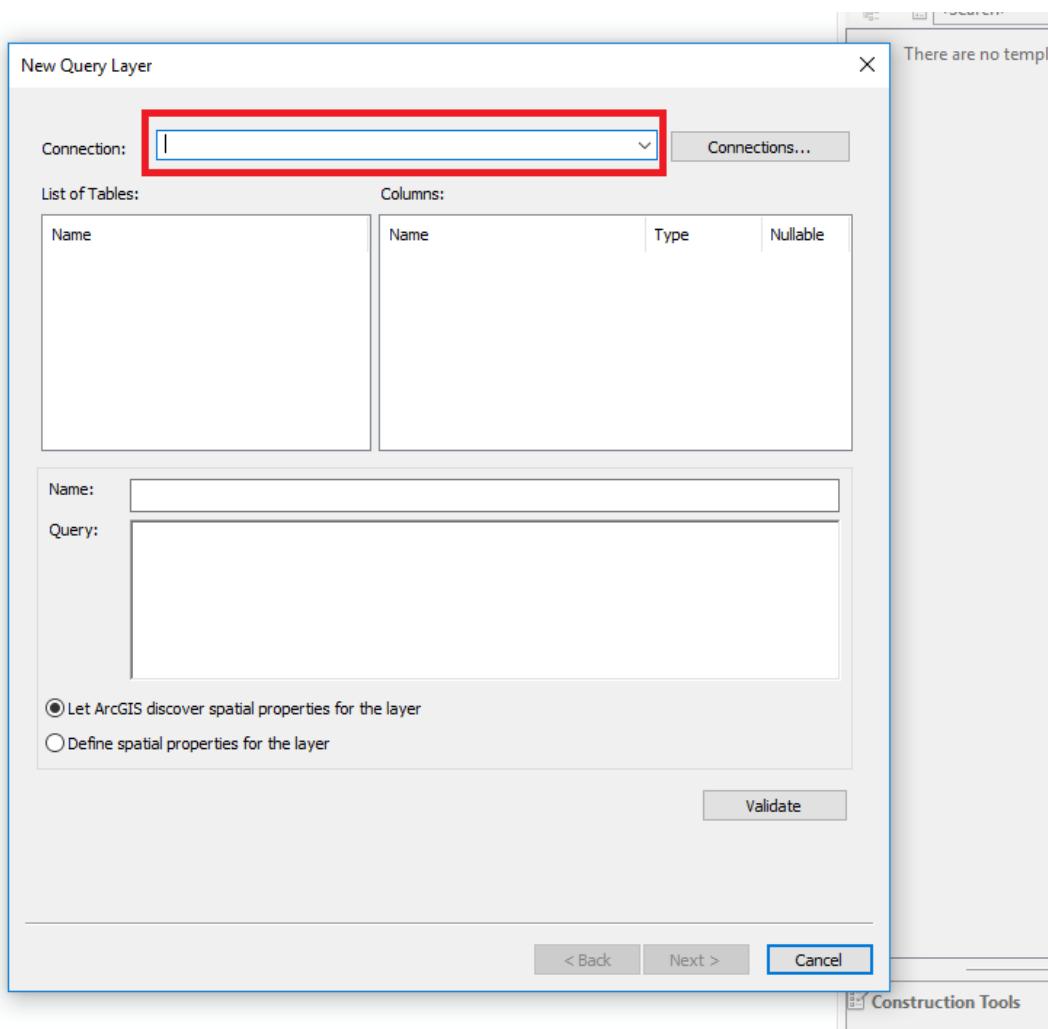


Figure 0.9: New Query Layer Dialog

Query Text:

```
SELECT [parcelnumber] FROM [D005ALLEGAN].[dbo].[Forfeitures]
WHERE forf_year = 2019
```

Details of the Query Layer

- Choose connection
- Name the query
- Enter SQL query

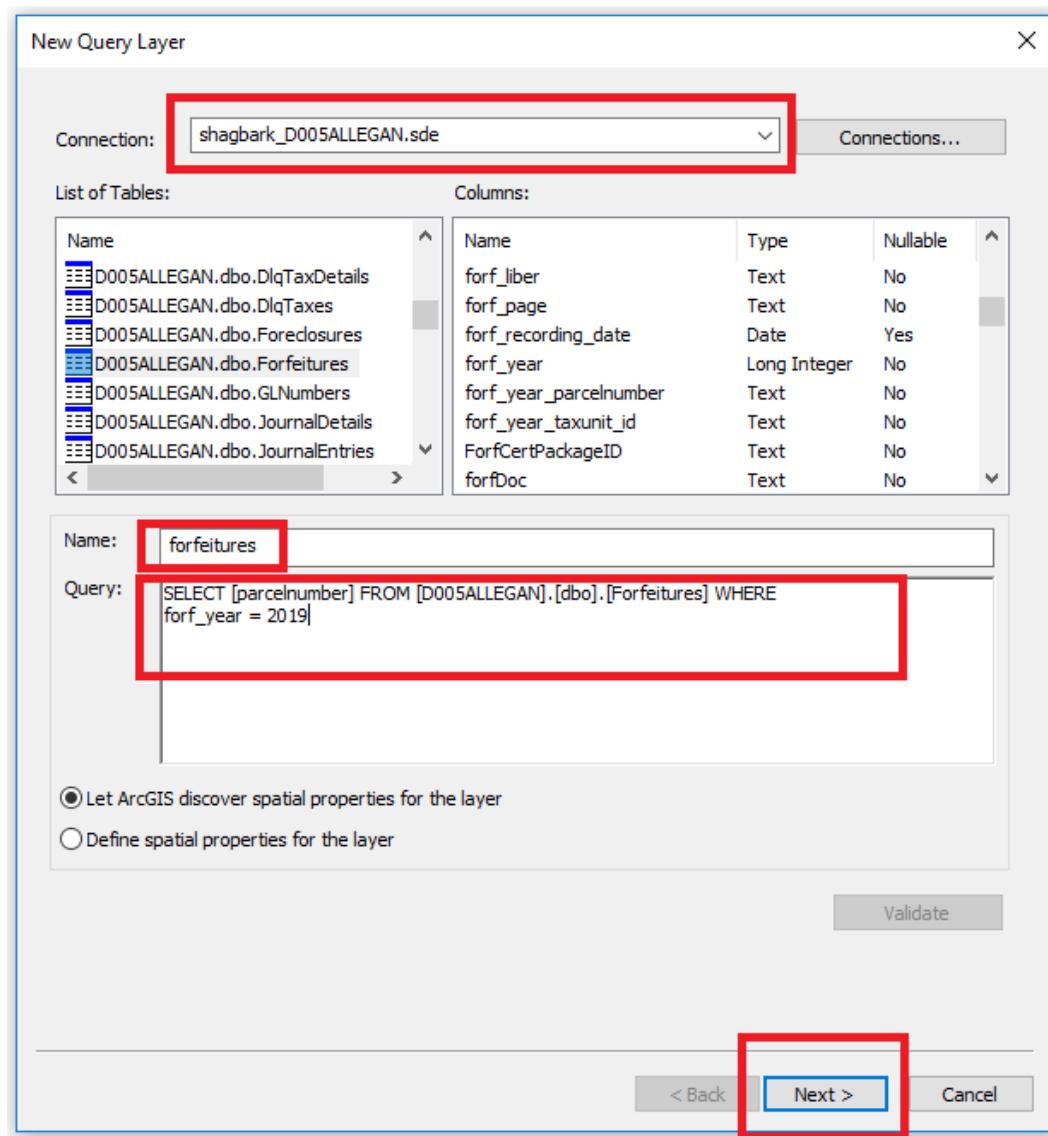


Figure 0.10: Forfeiture Query Layer Details

- Press **Next**

Select a Unique Identifier

➤ Press **Finish**

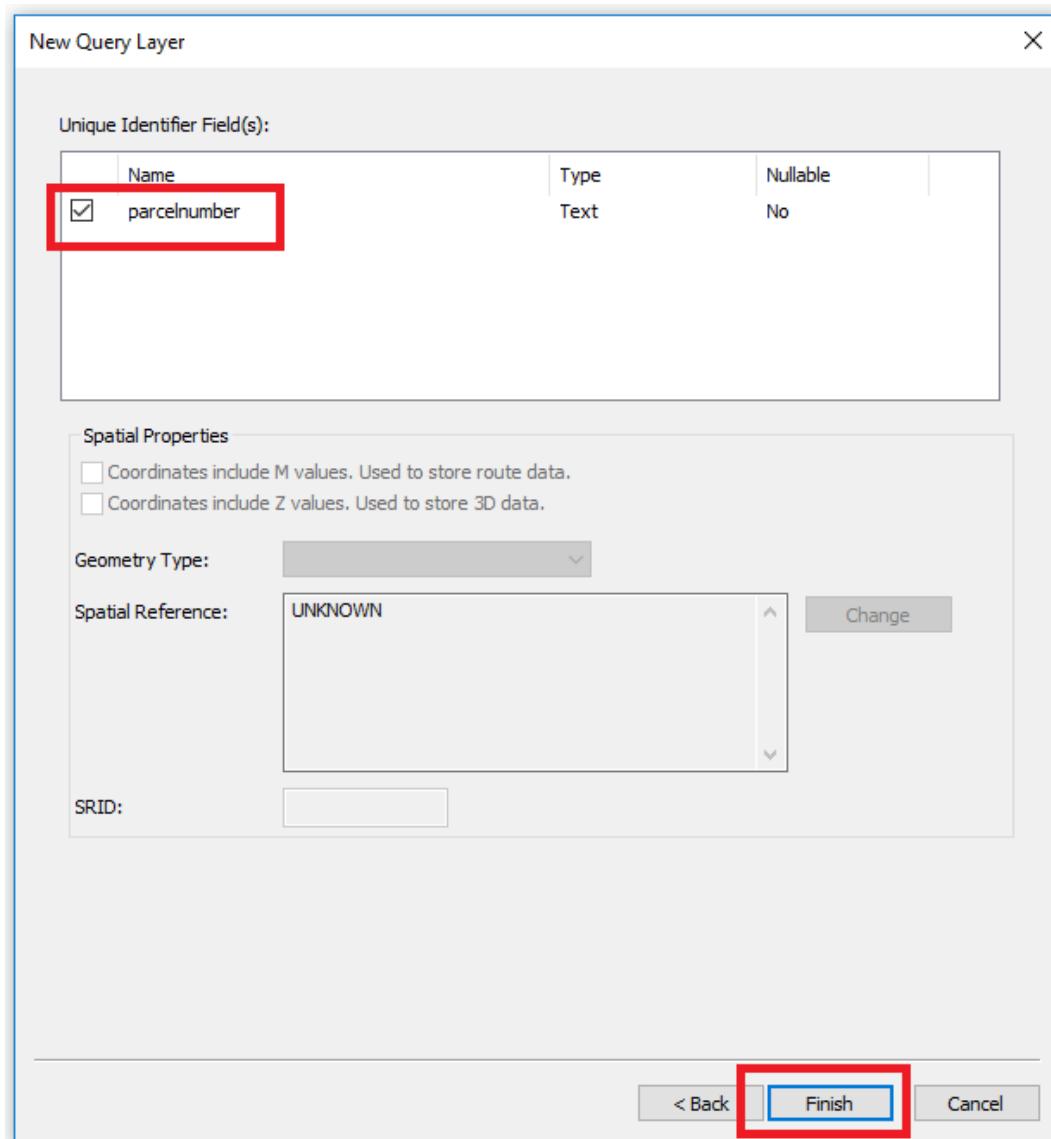


Figure 0.11: Query Layer Unique ID

Table is added to the map

The screenshot shows the ArcGIS Pro interface with two main windows. On the left is the 'Table Of Contents' window, which lists various layers and tables. A red box highlights the 'D005ALLEGAN' folder, which contains the 'D005ALLEGAN.DBO.forfeitures' table, also highlighted with a blue box. On the right is the 'Table' window, which displays the contents of the selected table. The table has two columns: 'parcelnumber' and 'ESRI_OID'. The data consists of 836 rows of parcel numbers, each associated with a unique ID.

parcelnumber	ESRI_OID
01-007-012-00	1
01-008-005-00	2
01-016-031-10	3
01-019-001-13	4
01-019-005-97	5
01-025-017-00	6
01-026-020-00	7
01-030-014-10	8
01-030-019-00	9
01-031-031-00	10
01-034-009-00	11
01-034-014-10	12
01-034-055-00	13
01-034-067-00	14
01-034-087-00	15
01-034-108-00	16
01-035-015-00	17
01-035-020-20	18
01-035-030-00	19
01-035-044-00	20
01-035-044-10	21
01-120-004-00	22
01-120-010-00	23
01-120-031-00	24
01-120-032-00	25
01-220-010-00	26
01-250-001-00	27
01-300-004-00	28
01-320-020-00	29
01-320-021-00	30
01-370-016-00	31
01-740-009-00	32
02-001-012-31	33
02-003-018-00	34
02-005-004-20	35
02-007-025-00	36

Figure 0.12: Forfeiture Table Added

Add Parcels Layer to the Map

Add ACParcelsCombined to the map to provide parcel geometry and attributes

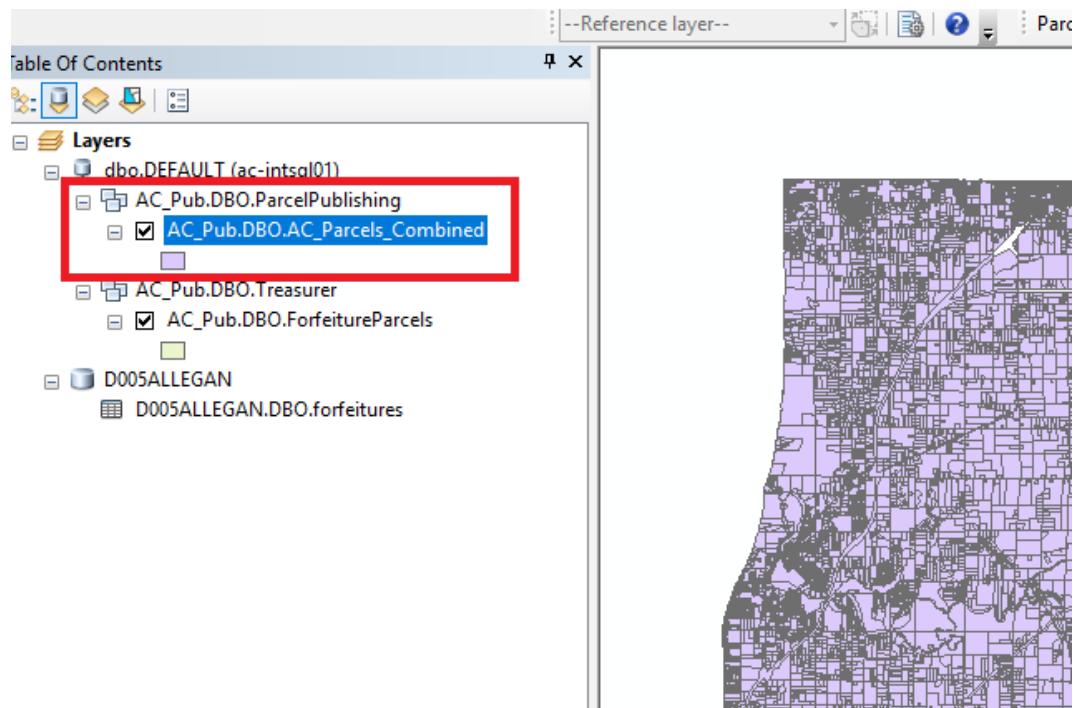


Figure 0.13: Parcels Layer Added

Create Join

Create new join to *ACParcelsCombined* of forfeitures on parcel numbers

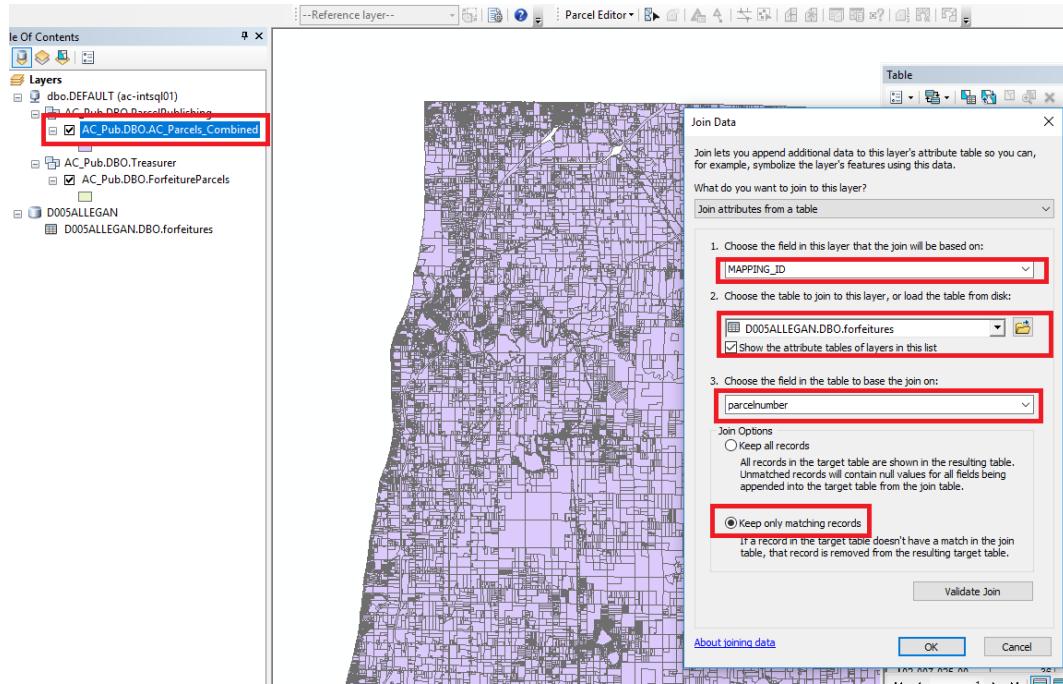


Figure 0.14: Join Parcels

Export Joined Features to a temp location

- Right click  on joined feature class in TOC and choose export

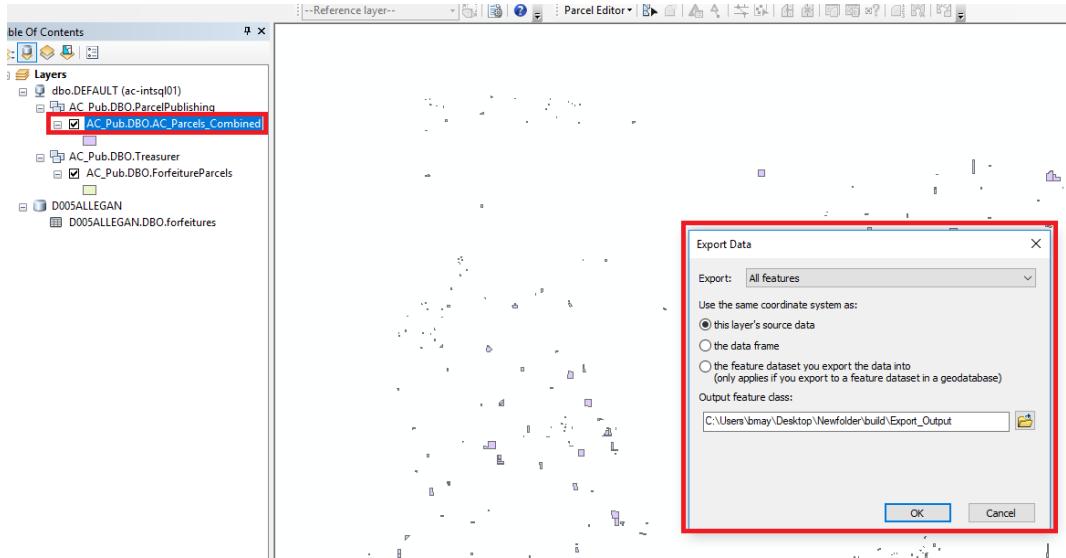


Figure 0.15: Export Joined Features

- choose location and press 

Load data from temp location to forfeitureParcels

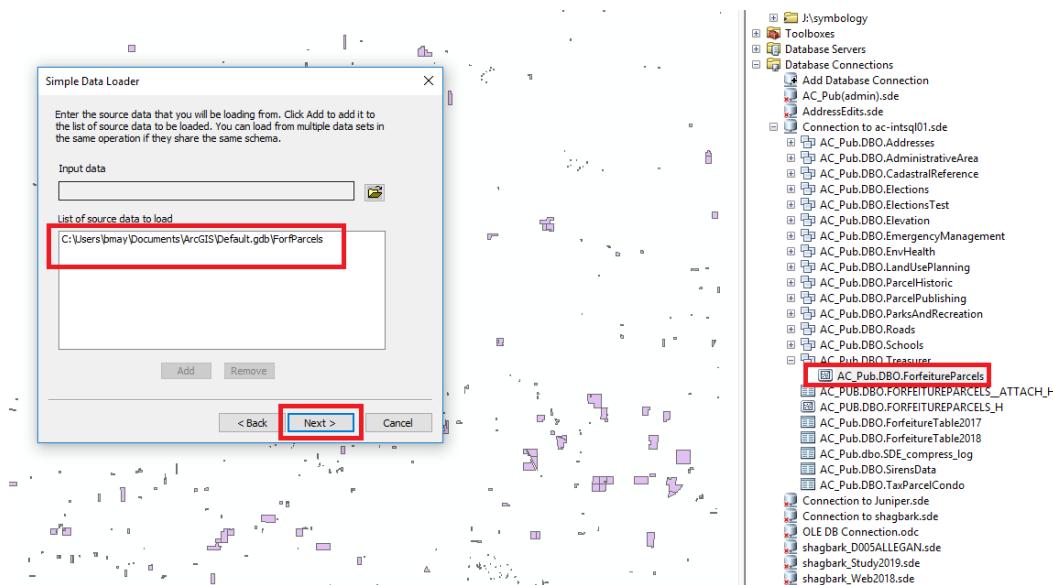


Figure 0.16: Load Data 1

push [Next]

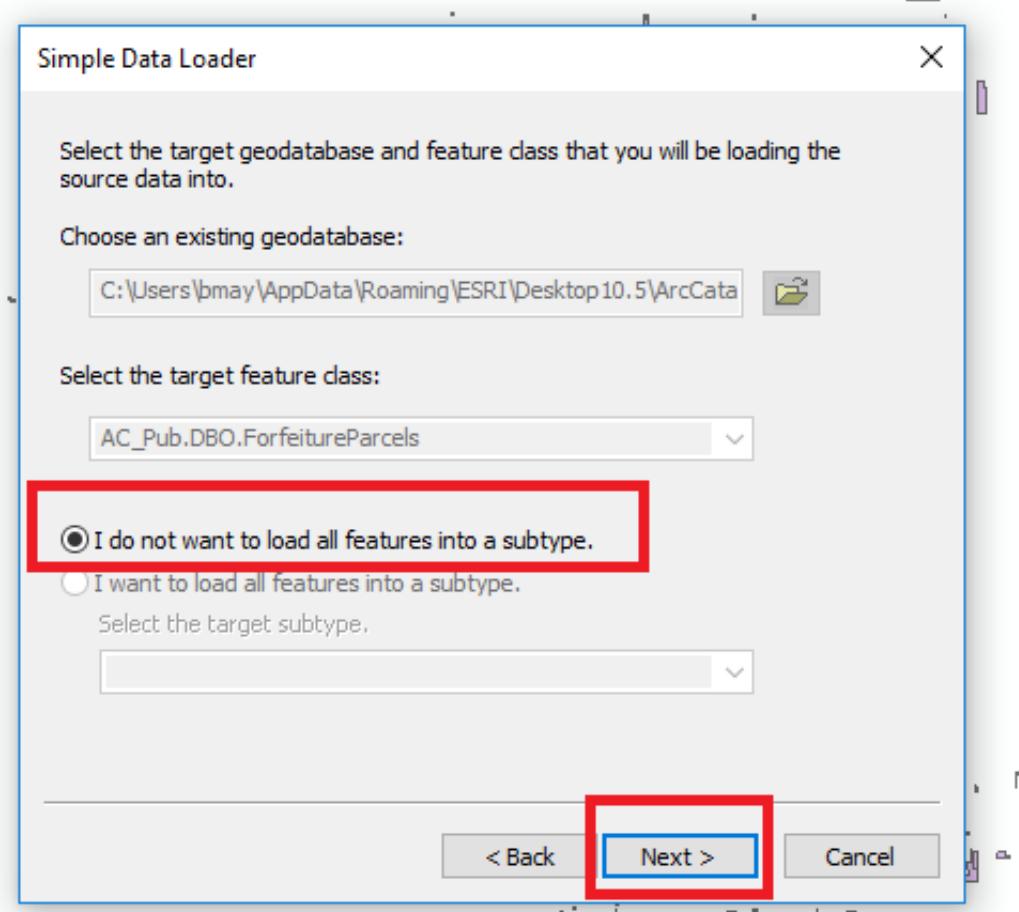


Figure 0.17: Load Data 2

Match these fields

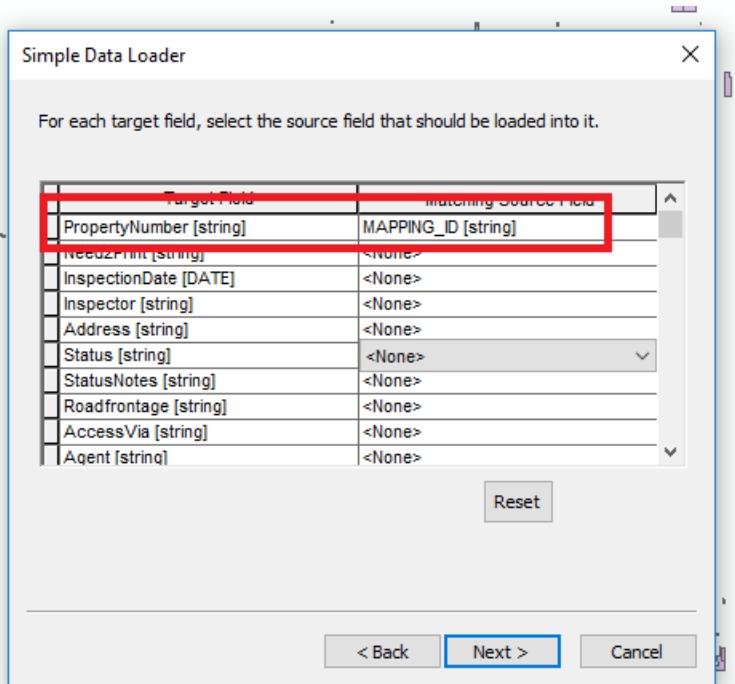


Figure 0.18: Match Fields 1

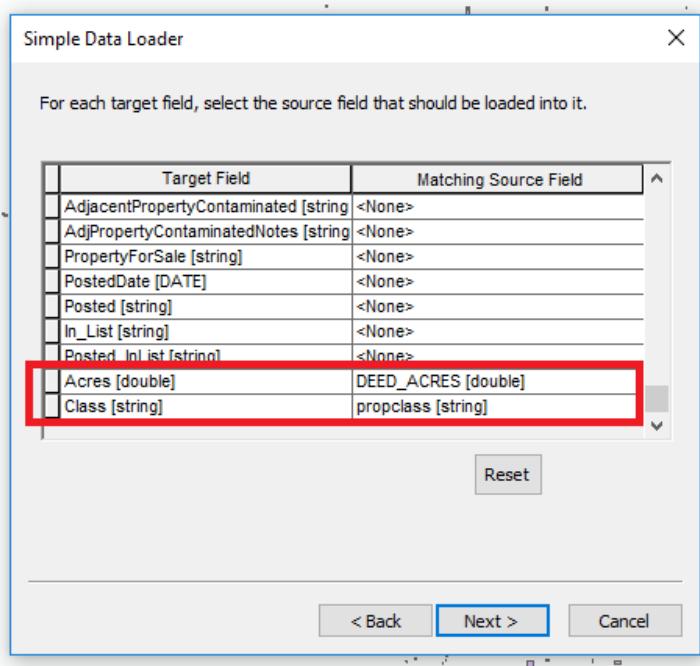


Figure 0.19: Match Fields 2

Push **Next**

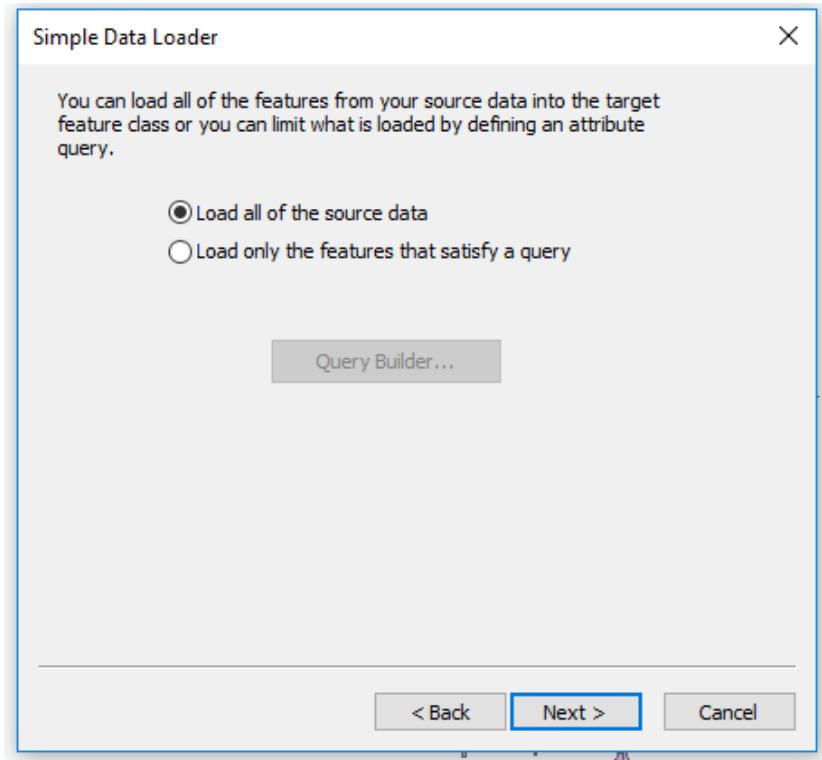


Figure 0.20: Load Data 3

Push **Finish**

Data Setup

Register as versioned and Add Global IDs

Right Click ➔ Manage ➔ Register as Versioned

and

Right Click ➔ Manage ➔ Add Global IDs

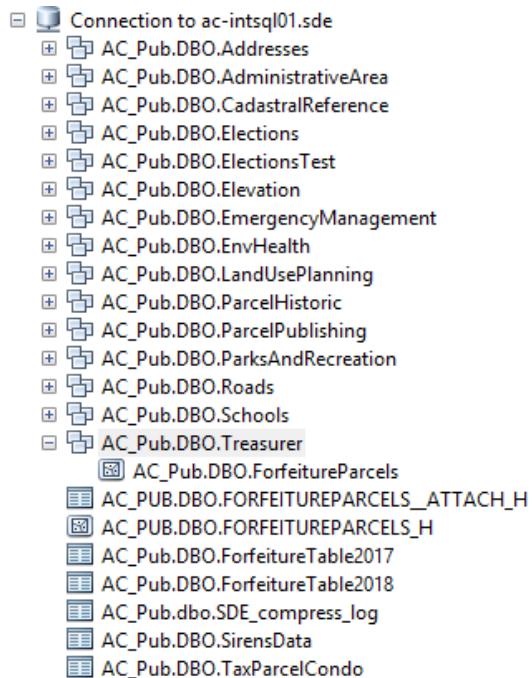


Figure 0.21: Setup Data

Create Attachments

Right Click Manage Add Attachments

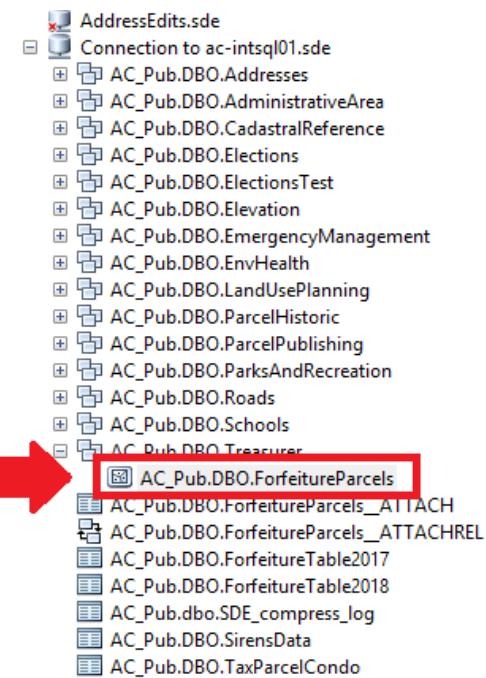


Figure 0.22: Create Attachments

Setup Users in ArcGIS

Users that will run Pre and Post processing scripts must be created and given privileges on ACPub Treasurer Feature Data Set.

For any new users of the geoprocessing tools:

Use the create Database User tool

or

In Catalog ➔ Right click on ACpub ➔ Administration ➔ Add User

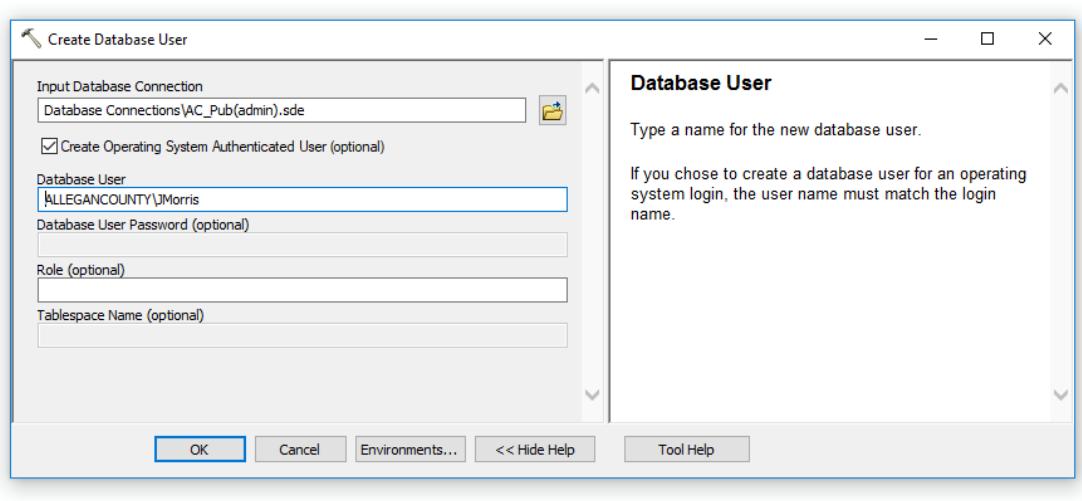


Figure 0.23: Add Db User

Add New User to Feature Dataset

In Catalog, right click on Treasurer Feature Data Set

Manage Privileges Add Type new user ok

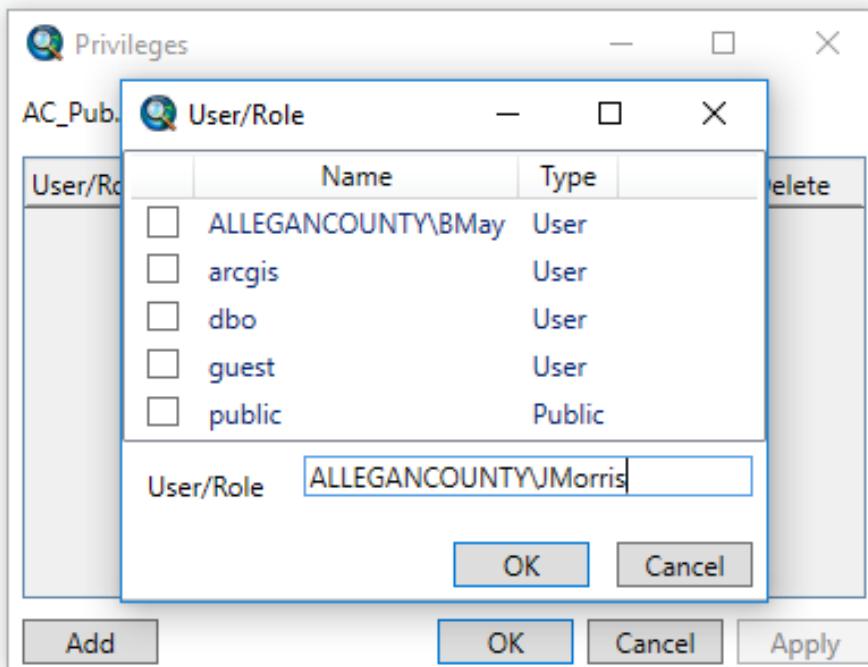


Figure 0.24: Add Feature Dataset User

Extend Privileges for New User

In Catalog ➔ right click on Treasurer FDS ➔ Manage ➔ Privileges ➔ check boxes

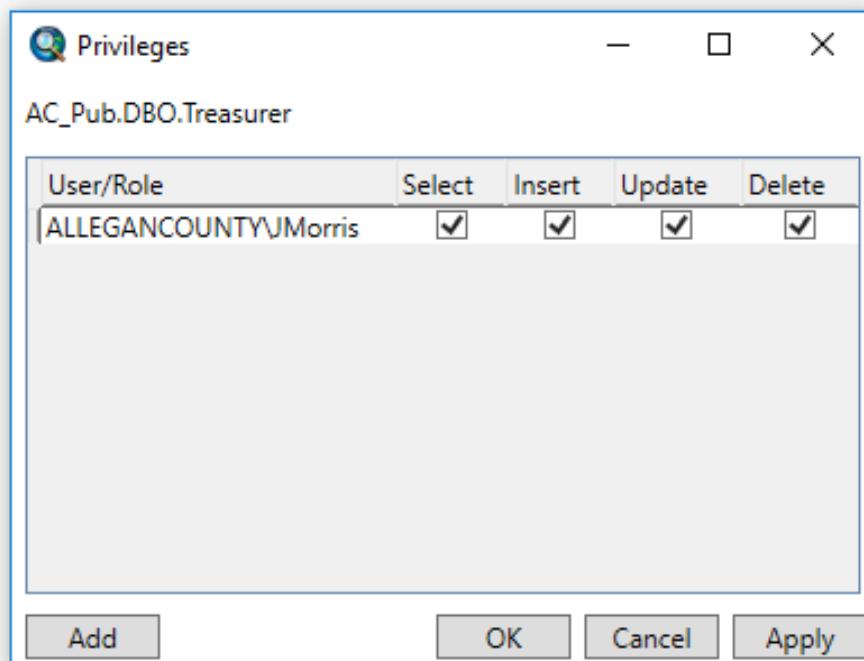


Figure 0.25: Extend Feature Dataset Privileges

Setup Users in Portal for ArcGIS

Users that will use the Collector for ArcGIS must have profiles added to and managed in the Allegan County GIS Portal site.

In Portal go to My Organization

The screenshot shows the 'My Organization' page of the Allegan County GIS Services portal. The URL in the address bar is https://gis.allegancounty.org/portal_webadaptor/home/organization.html. The page title is 'My Organization'. The navigation menu includes Home, Gallery, Map, Scene, Groups, My Content, and My Organization. The user 'Bryan' is logged in. The main content area displays the 'Allegan County GIS Services' logo and a table of current members:

Name	Username	Last Login	Level	Role	Action
Bryan May	bmay531	Nov 2, 2018	2	Administrator	[Edit]
Christina Andress	CAndress	Sep 19, 2018	2	Administrator	[Edit]
Jennifer Morris	JMorris	Oct 18, 2018	2	Administrator	[Edit]
Neil Besteman	nbesteman	Oct 29, 2018	2	Administrator	[Edit]
Paula Reed	preed6	Feb 7, 2017	1	Viewer	[Edit]

On the right side, there is a sidebar titled 'Membership' with the following information:

- Members per level:
 - 1 of 30
 - 2 of 5
- Total Members: 5 of 35
- Find...
- The most viewed items
- The last items added
- Groups
- The organization's registered apps

Figure 0.26: Portal Add User 1

Add Members to Portal

Push add members  built in member

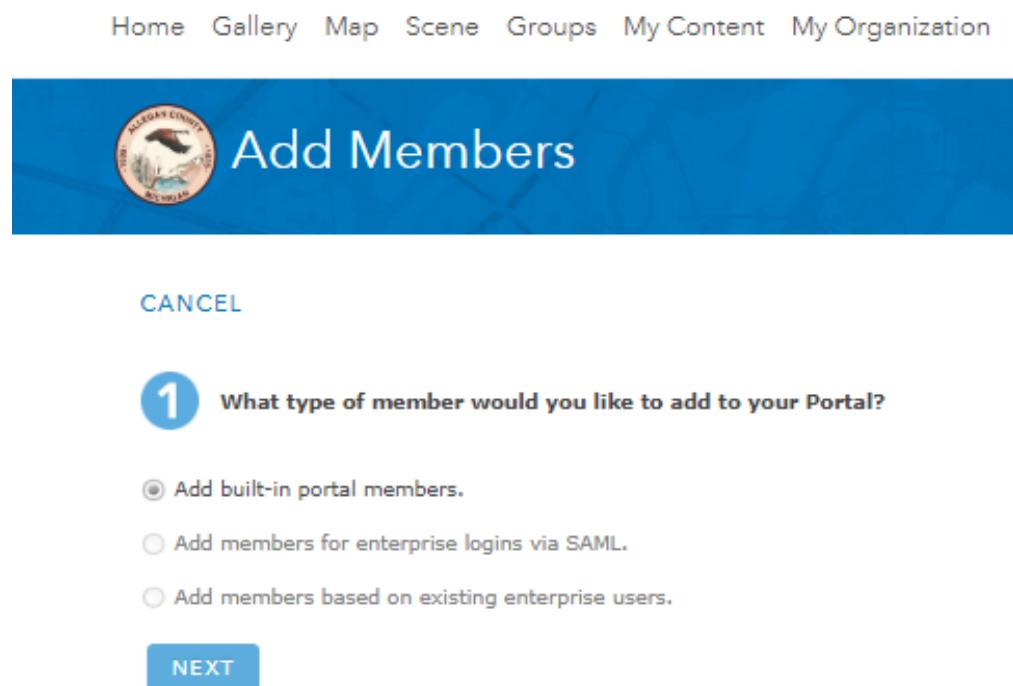
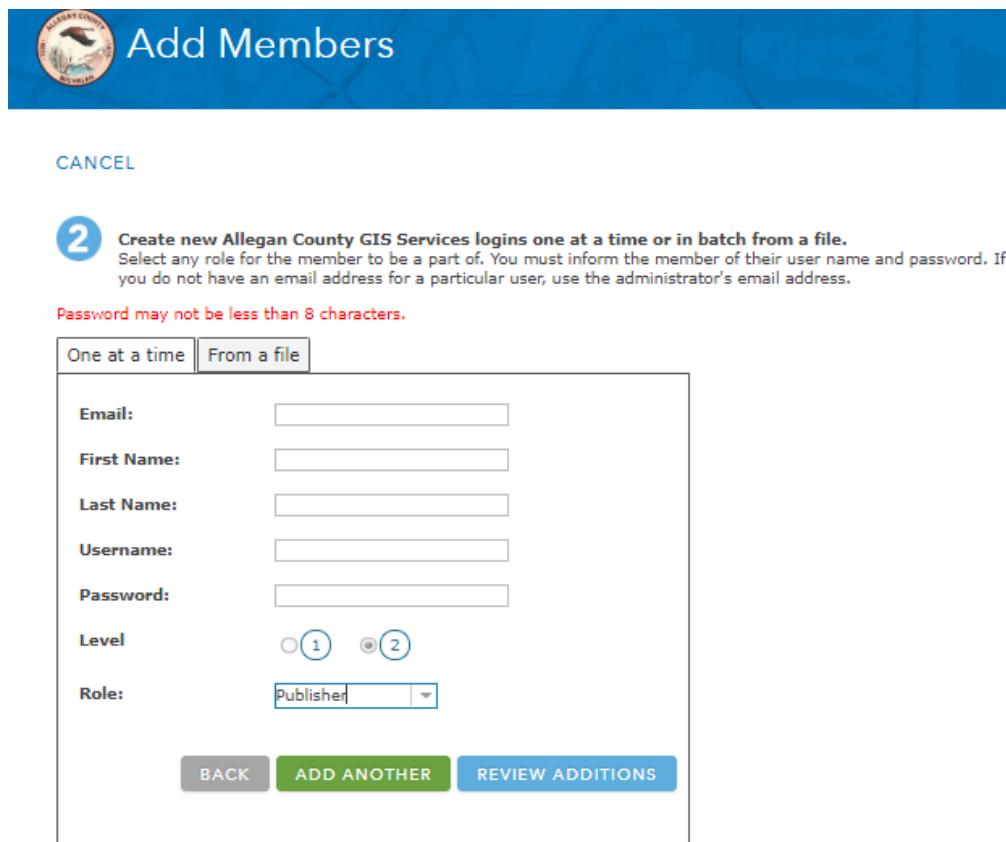


Figure 0.27: Portal Add User 2

Enter required info



The screenshot shows a web-based application titled "Add Members" from Allegan County GIS Services. At the top left is the county seal. The main heading is "Add Members". Below the heading are two buttons: "CANCEL" and "CREATE". A large blue callout box contains step 2 instructions: "Create new Allegan County GIS Services logins one at a time or in batch from a file. Select any role for the member to be a part of. You must inform the member of their user name and password. If you do not have an email address for a particular user, use the administrator's email address." A red error message "Password may not be less than 8 characters." is displayed above the password field. The form fields include:

One at a time	From a file
Email:	<input type="text"/>
First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="password"/> (The password field is highlighted in red)
Level	<input type="radio"/> 1 <input checked="" type="radio"/> 2
Role:	<input type="text" value="Publisher"/> (The role dropdown is highlighted in red)

At the bottom are three buttons: "BACK", "ADD ANOTHER" (highlighted in green), and "REVIEW ADDITIONS".

Figure 0.28: Portal Add User 3

Manage Treasurer Group

In Portal ➔ Go to groups ➔ Invite new user to the group

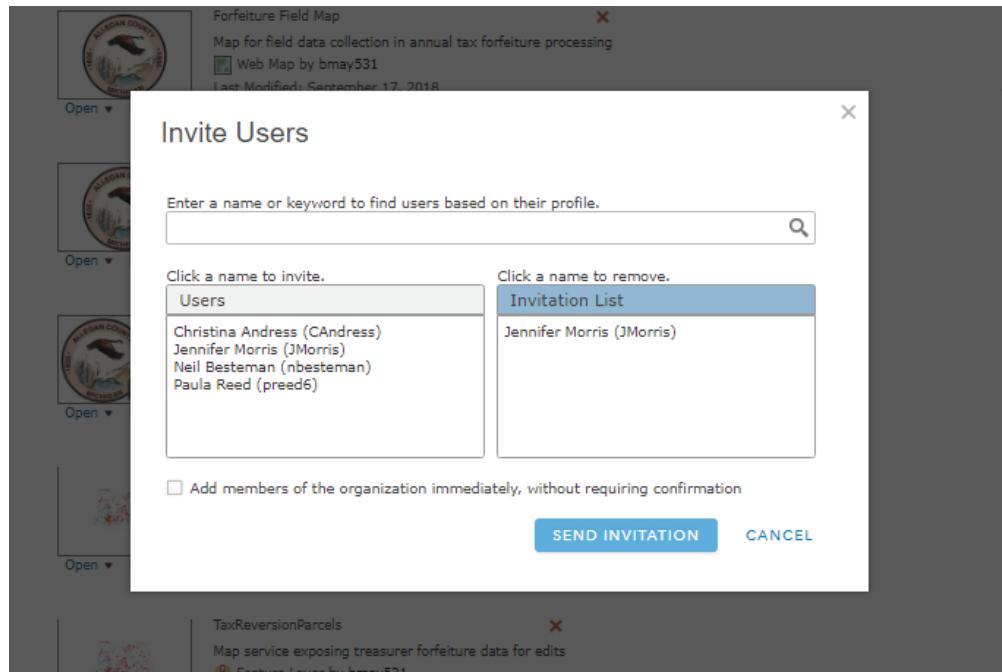


Figure 0.29: Portal Add User 4

Share Content To The Group

Any content used by the group needs to be shared to the group

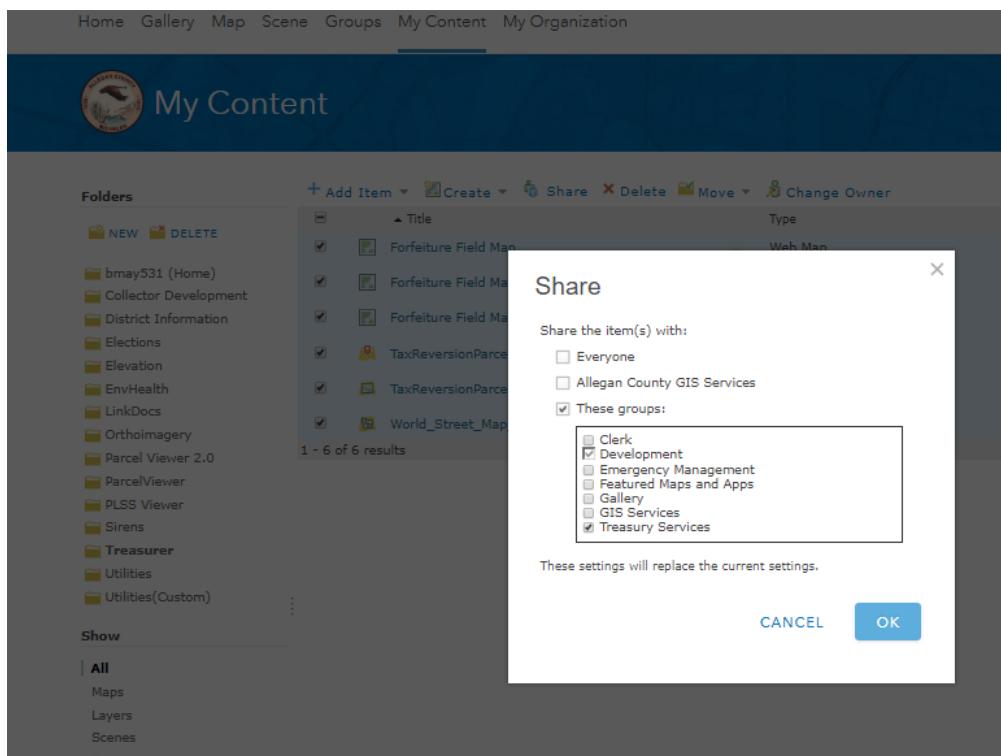


Figure 0.30: Portal AddUser 5

Schema Change Procedure

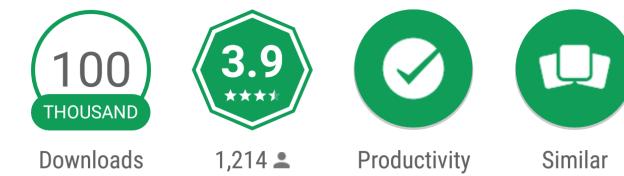
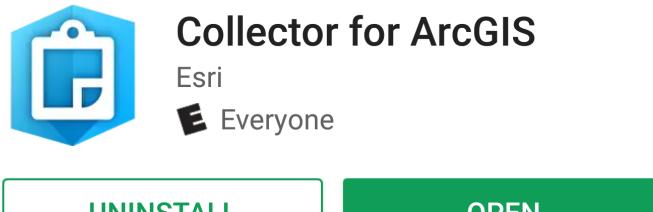
Form Edits Procedure

USER MANUAL

Collection Device Setup

Install Collector for ArcGIS

- Available from the Google Play Store



Accurate Data Collection Made Easy



WHAT'S NEW

- Various bug fixes and improvements

[READ MORE](#)

Figure 0.31: Download the App

Configure Collector

for Organization Website, Type:

[https://gis.allegancounty.org/
portal_webadaptor](https://gis.allegancounty.org/portal_webadaptor)

Press **Continue** ➔

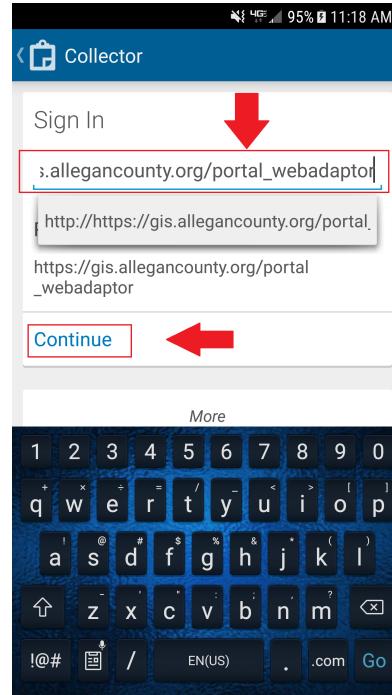


Figure 0.32: Collector Connection

Enter Credentials

Press **SIGN IN** ➔

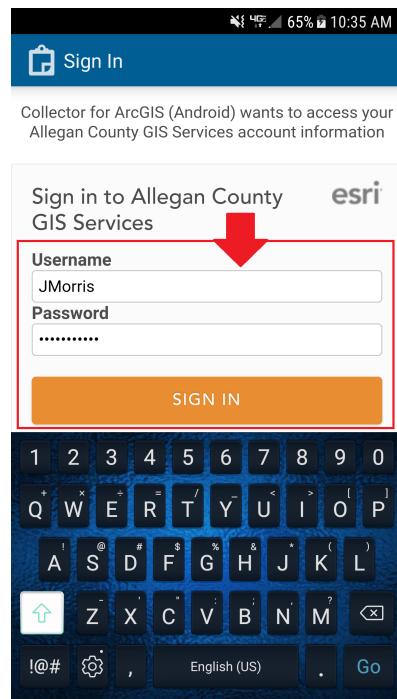


Figure 0.33: Enter Credentials

Download the Forfeiture Field Map

There are 3 different versions of the map

- Forfeiture Field Map
- Forfeiture Field Map For Photos
- Forfeiture Field Map For Attributes

The Download option indicates it is not on the device but is available for offline use

Choose a Map

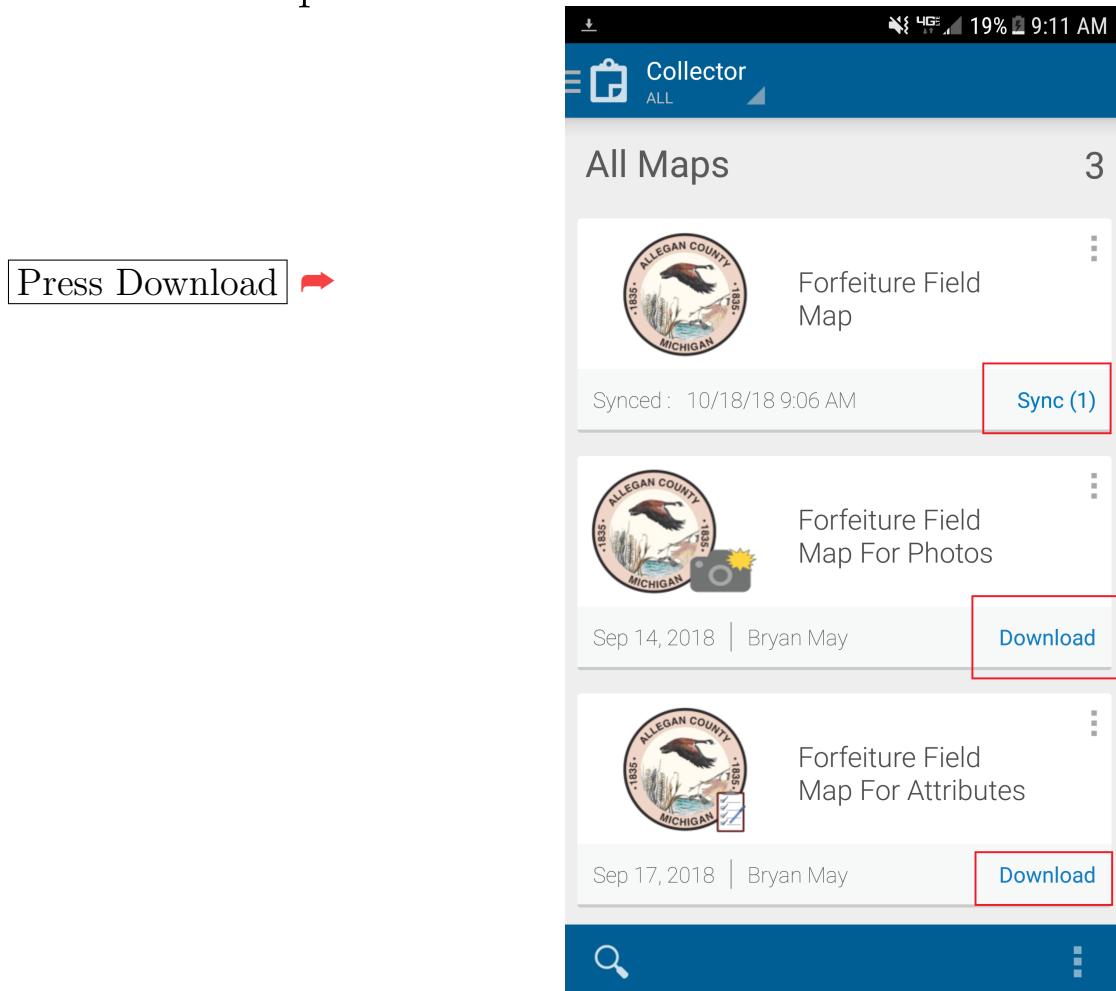


Figure 0.34: Collector Maps Menu

Specify work area

Choose Map Detail ➔

Note that a larger area takes longer to download but the basemap only needs to be downloaded once

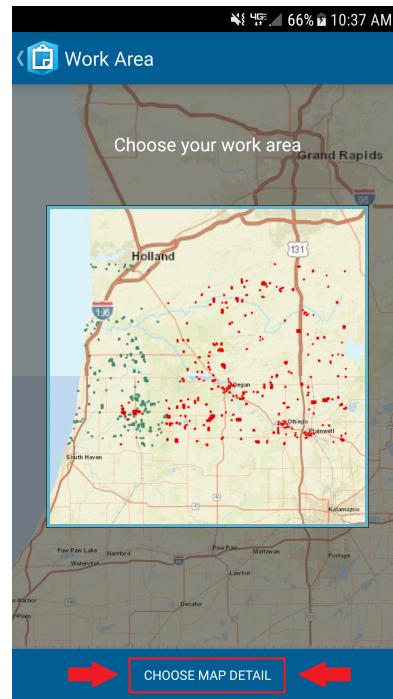


Figure 0.35: Choose Work Area (large)

Choose Map Detail

Zoom into the level of detail desired.

Press **Download** ➔

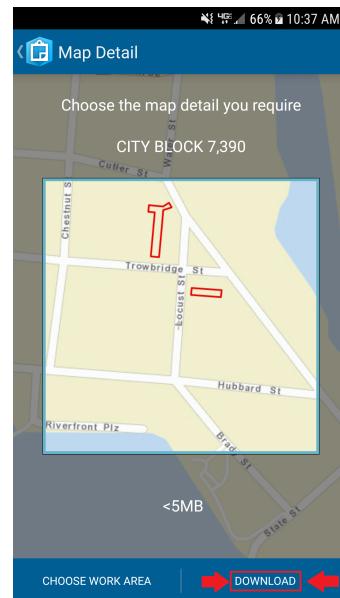


Figure 0.36: Choose Map Detail

This area is ready for field data collection ➔

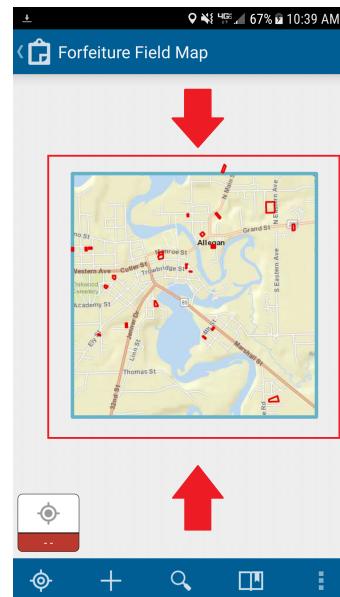


Figure 0.37: Map on Device

Open Camera Application Setup Details

Install Open Camera

- Available from the Google Play Store

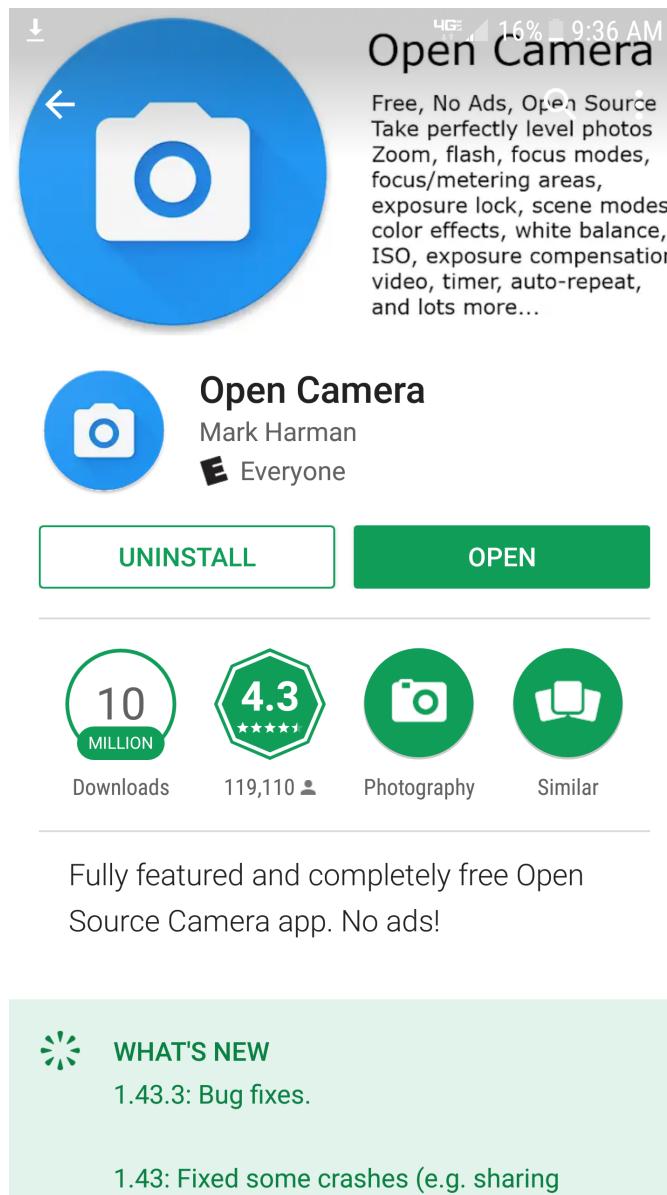


Figure 0.38: Open Camera from Google Play Store

Configure Open Camera

In the Open Camera App:

Settings 

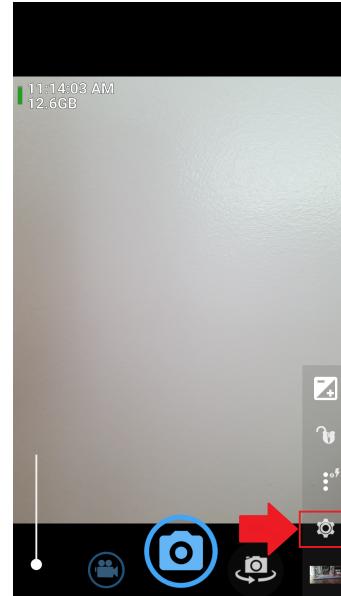


Figure 0.39: Find Settings Menu

Photo Settings 

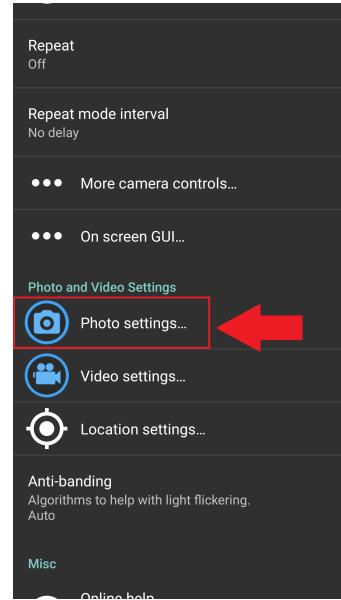


Figure 0.40: Setting Screen

Set Photo Resolution

In the Open Camera App:(cont.)

Camera Resolution ➔

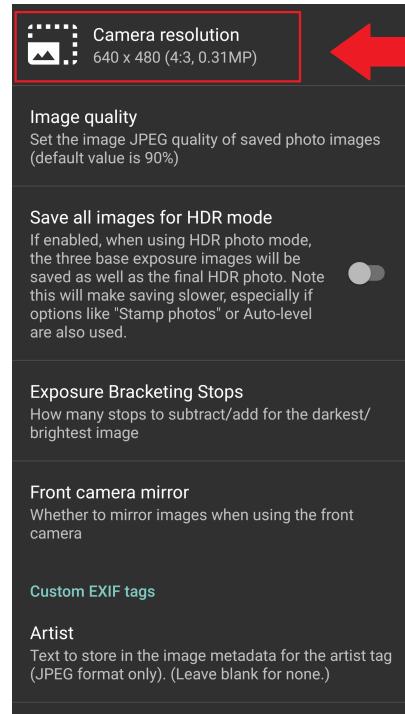


Figure 0.41: Photo Settings Menu

640 x 480 ➔

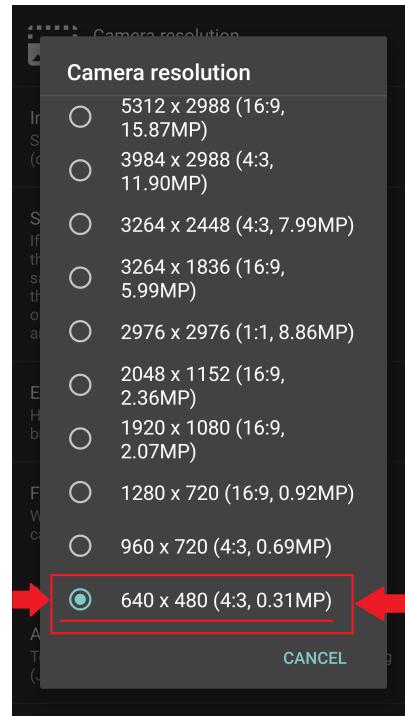


Figure 0.42: Camera Resolution Setting

Preprocessing Routine

Each day the data must be prepared by executing the tool:

1. Preprocess

What the tool does:

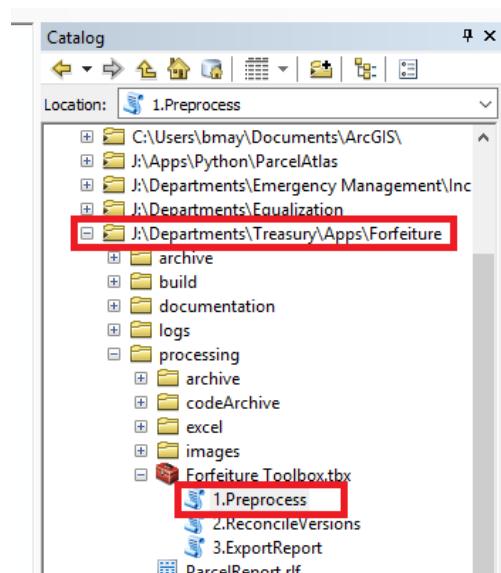
- Exports current forfeiture list from BSA
- Updates webmap layers with results from BSA export

To use the preprocess tool:

In the Catalog window, navigate to:

J:\Departments\Treasury\Apps\Forfeiture\processing\ForfeitureToolbox.tbx

Open the toolbox ➔



1.Preprocess ➔

Figure 0.43: Processing Tools

Synchronize the Forfeiture Field Map

Note the date and time

Sync 

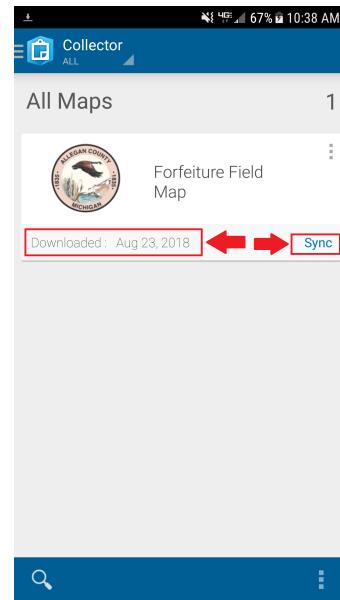


Figure 0.44: Map Downloaded

Note the date and time

Map is synchronized 

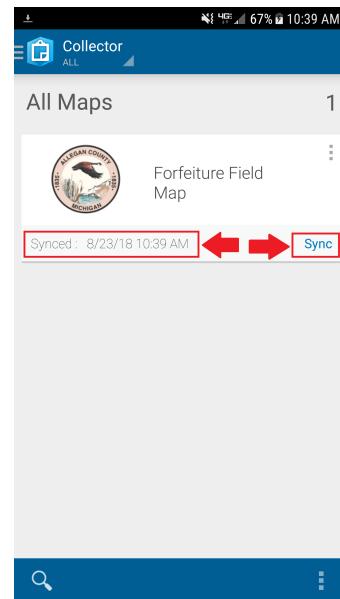


Figure 0.45: Map Synchronized

Field Data Collection

Data Entry Details

Attributes are of four entry types:

- Prefilled (in preprocessing)
- Autofill
- Dropdown
- Text box

Mobile Device Summary

For each site visited,

- Select the desired parcel
- Push the edit button
- Collect attributes or photos

Device 1 Field Operation

Select a Parcel ➔



Figure 0.46: Select a Parcel

Edit ➔

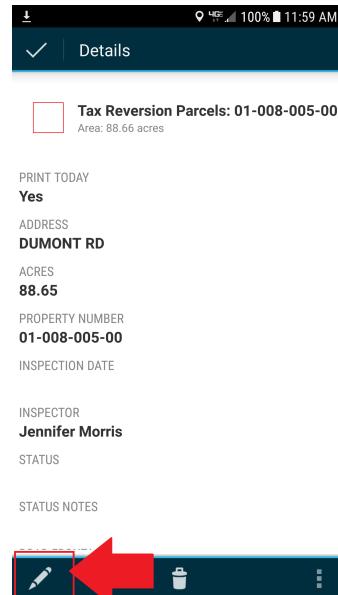


Figure 0.47: Push Edit

Device 1 Field Operation

(cont.)

Print Today ➔

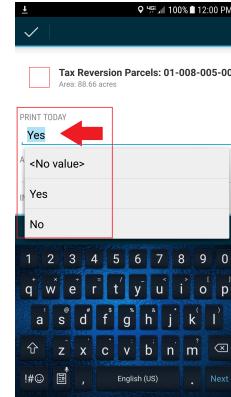


Figure 0.48: Yes or No

Date ➔

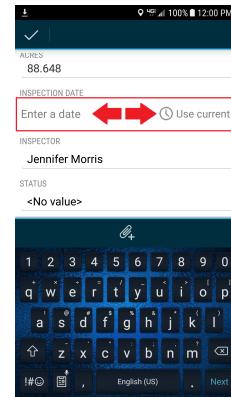


Figure 0.49: Enter Date

Inspector ➔

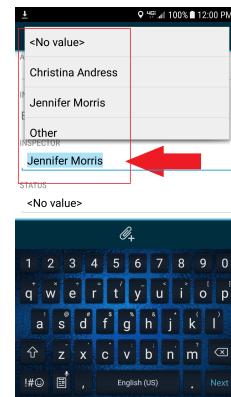


Figure 0.50: Select Inspector

Device 1 Field Operation

(cont.)

Status ↗

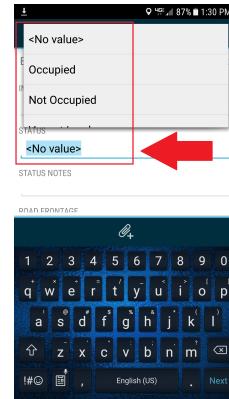


Figure 0.51: Occupied or Not

Status Notes ↗

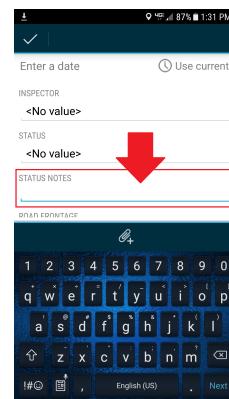


Figure 0.52: Enter Text

Road Frontage ↗

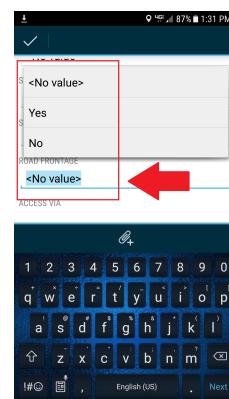


Figure 0.53: Yes or No

Device 1 Field Operation

(cont.)

Access Via 

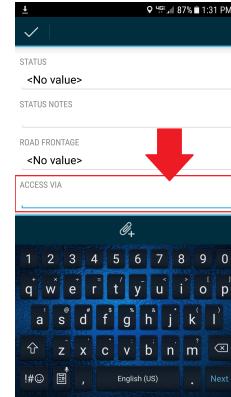


Figure 0.54: Enter Text

Agent 

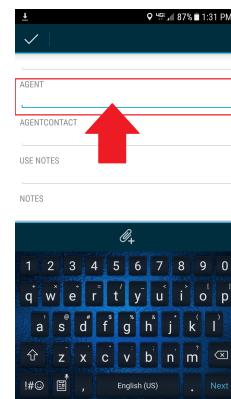


Figure 0.55: Enter Text

Agent Contact Info 

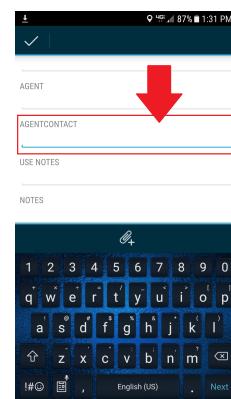


Figure 0.56: Enter Text

Device 1 Field Operation

(cont.)

Property in Use ➔

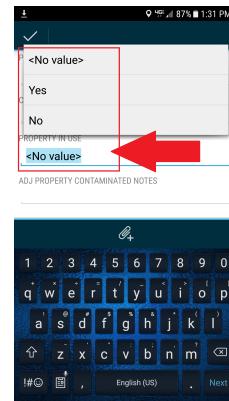


Figure 0.57: Yes or No

Use Notes ➔

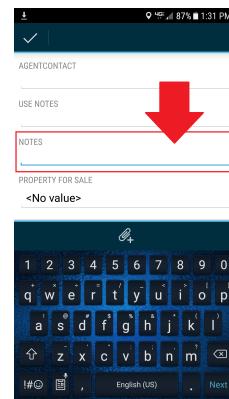


Figure 0.58: Enter Text

Property Maintained ➔

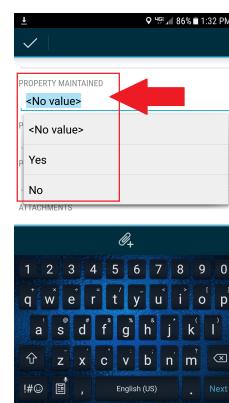


Figure 0.59: Yes or No

Device 1 Field Operation

(cont.)

Maintenance Notes

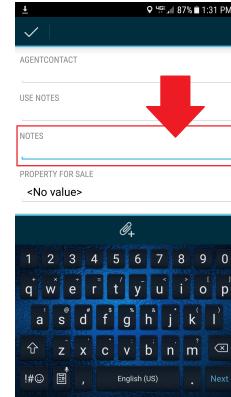


Figure 0.60: Enter Text

Property Contaminated

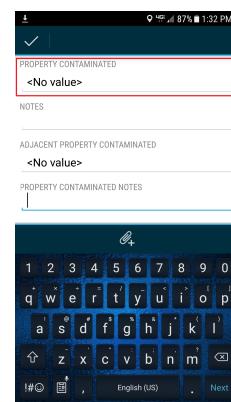


Figure 0.61: Prefilled

Property Contaminated Notes

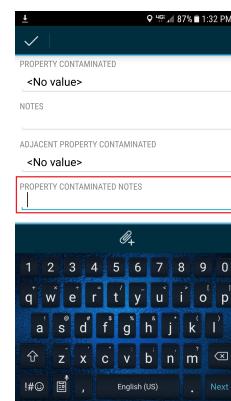


Figure 0.62: Enter Text

Device 1 Field Operation

(cont.)

Forfeiture Posted 

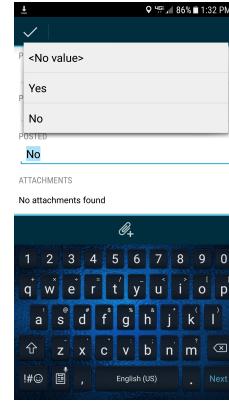


Figure 0.63: Yes or No

Adjacent Property Contaminated 

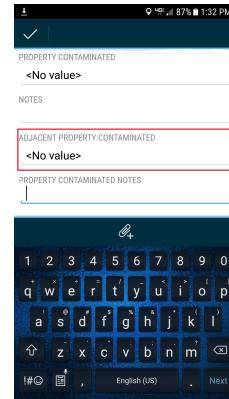


Figure 0.64: Prefilled

Adjacent Property Contaminated Notes 

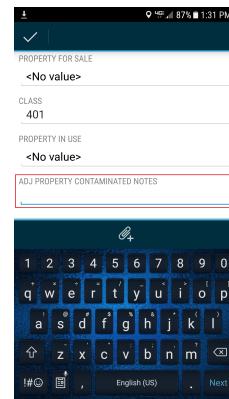


Figure 0.65: Prefilled

Device 1 Field Operation

(cont.)

Property For Sale 

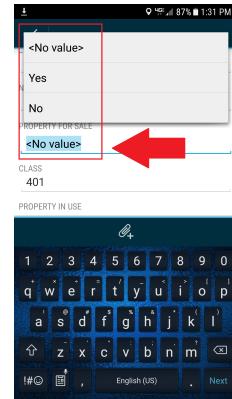


Figure 0.66: Yes or No

Device 2 Field Operation

Select a Parcel 



Figure 0.67: Select Parcel

Attachment 

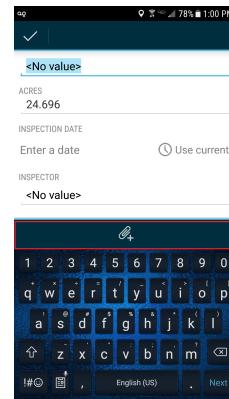


Figure 0.68: Add Attachment

Gallery 

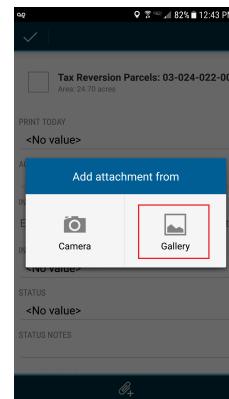


Figure 0.69: From Gallery

Device 2 Field Operation

(cont.)

Open Camera Folder 

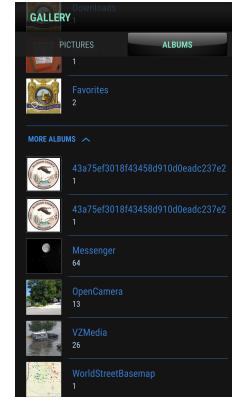


Figure 0.70: Camera Folder

Select Image 

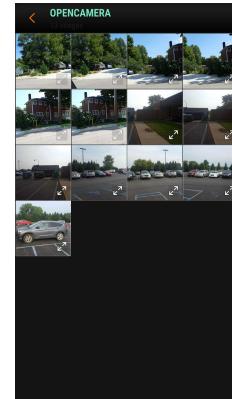


Figure 0.71: Select Image

Attach Image 

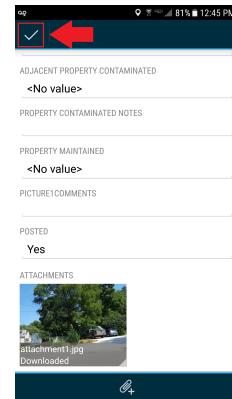


Figure 0.72: Push Check Mark

DAILY POSTPROCESSING ROUTINE

Synchronize Data

Any devices that were used for field data collection must be synchronized with the network production data.

Synchronize the Field Collection Devices

So, if two devices were used:

On Device 1:

Sync Attributes 

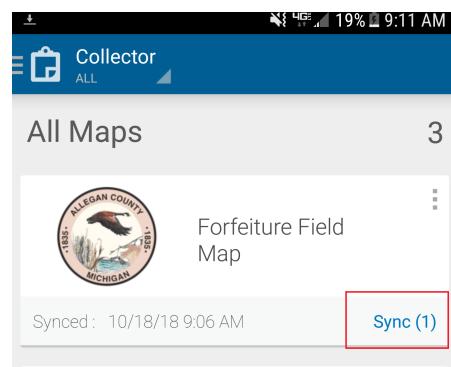


Figure 0.73: Sync

On Device 2:

Sync Photos 

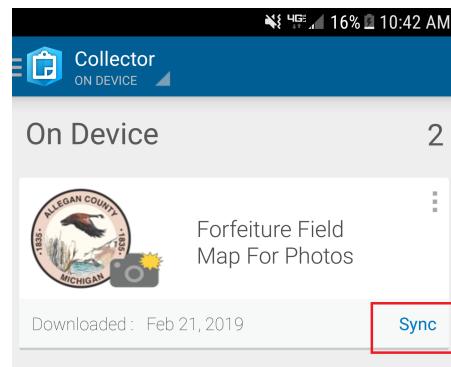


Figure 0.74: Sync Photos

Reconcile Versions and Print Report

Each device that is synchronized corresponds to a version within the geodatabase.

The versions must be reconciled with the tool:

2. Reconcile Versions and Compress

Reconcile

2. Reconcile Versions and Compress ➔

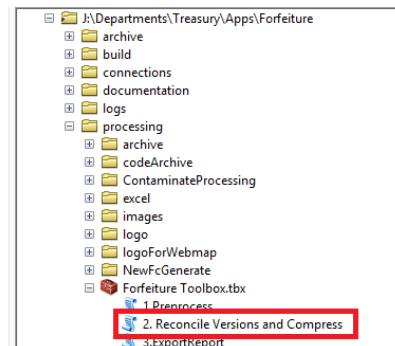


Figure 0.75: Double Click

Reconcile Versions and Print Report (cont.)

Inspection reports are generated by running the tool:

3. Export Report

Print Reports

3. Export Report 

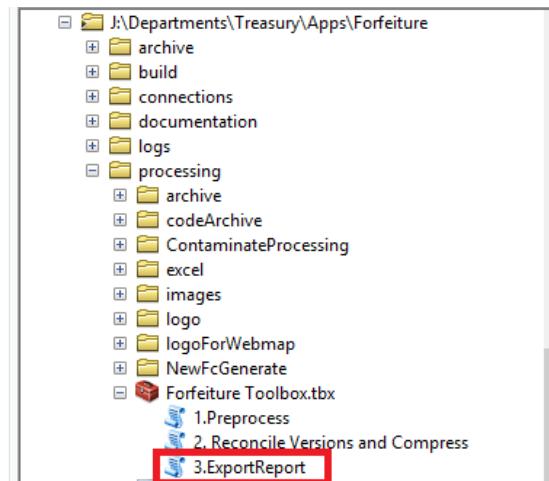


Figure 0.76: Double Click

SOFTWARE

ESRI Licensed Products

ArcDesktop

(Users need a license to ArcGIS Standard level)

Enterprise ArcGIS Deployment

(This app uses ArcGIS Server and ArcGIS Portal)

Collector for ArcGIS

ArcGIS Collector is available at the Google Play Store.

(Developed and tested on Android(7.0))

Other Software

Open Camera for Android



Figure 0.77: Open Camera from Google Play Store