Using ArcGIS Online to Manage Albuquerque's Many Neighborhood Associations

By: Jessica Ridout
City of Albuquerque Planning Department
AGIS Division

Office of Neighborhood Coordination (ONC)

- Formed in 1985
- **ONC's Mission**
  - To help create vibrant and thriving neighborhoods in the City of Albuquerque.
- Currently 229 neighborhood associations - changes weekly

Albuquerque Geographic Information Systems Division - AGIS

- Formed in 1986
- Esri customer #6
- Digitized NA's in mid-90's
- Were available in various GIS applications, but ONC wasn't using them
  - Resulted in many errors, bad boundaries

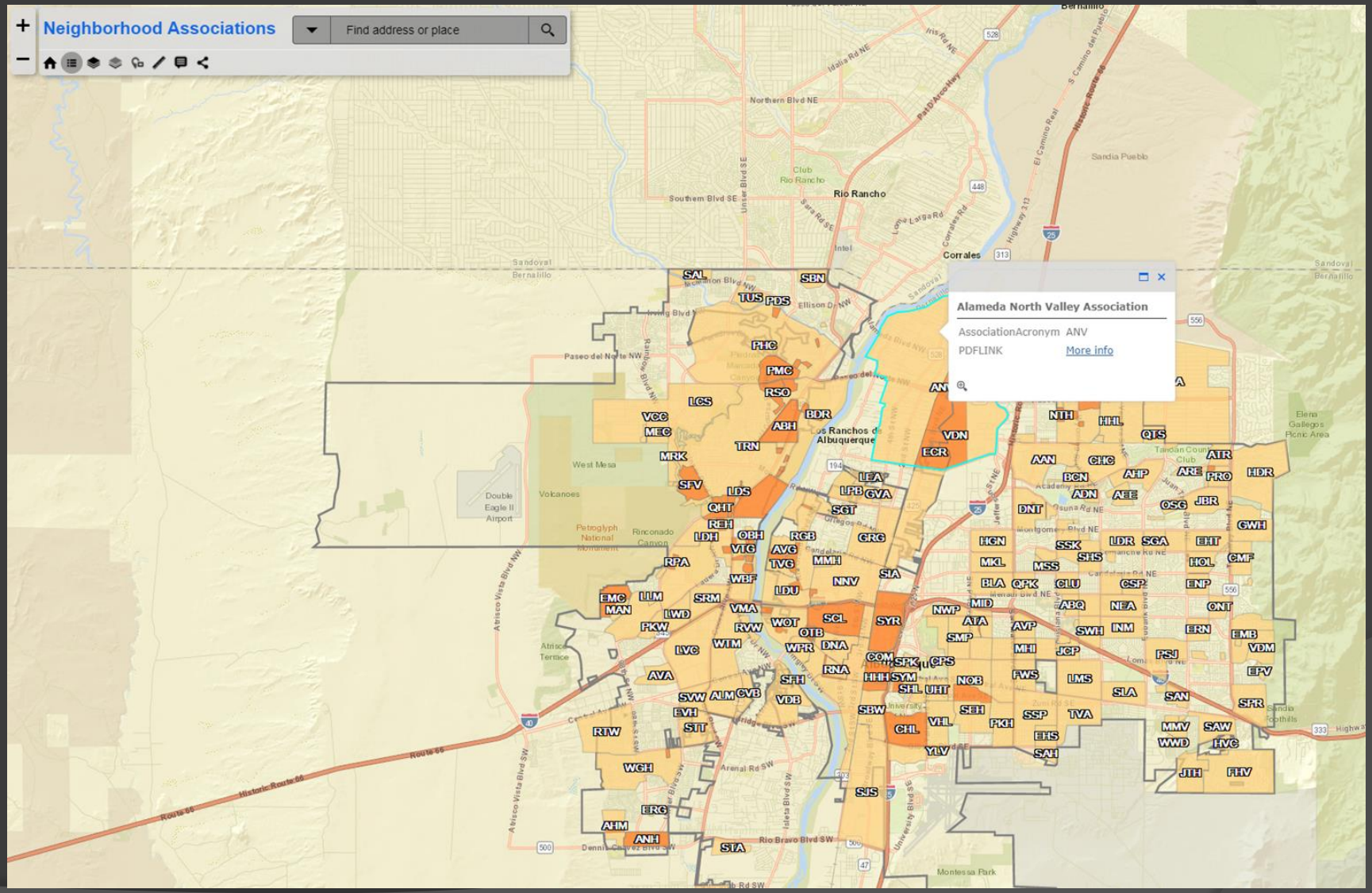
Pre-ArcGIS Online

- All association boundaries were drawn by hand and kept in binder
  - Stickers, color coded hatching
- Notifications – hand measured buffer on paper maps
  - Human error caused missed notifications
- Angry citizen noticed bad NA boundary in AGIS map
  - ONC finally discovered AGIS

Going digital

- First ArcGIS Online app in 2010
- AGIS staff digitized the boundaries of every single association in book
  - Took three staff members four weeks to scan, georeference, and verify boundaries
- Continued to track on paper as well as app
- No helpful tools

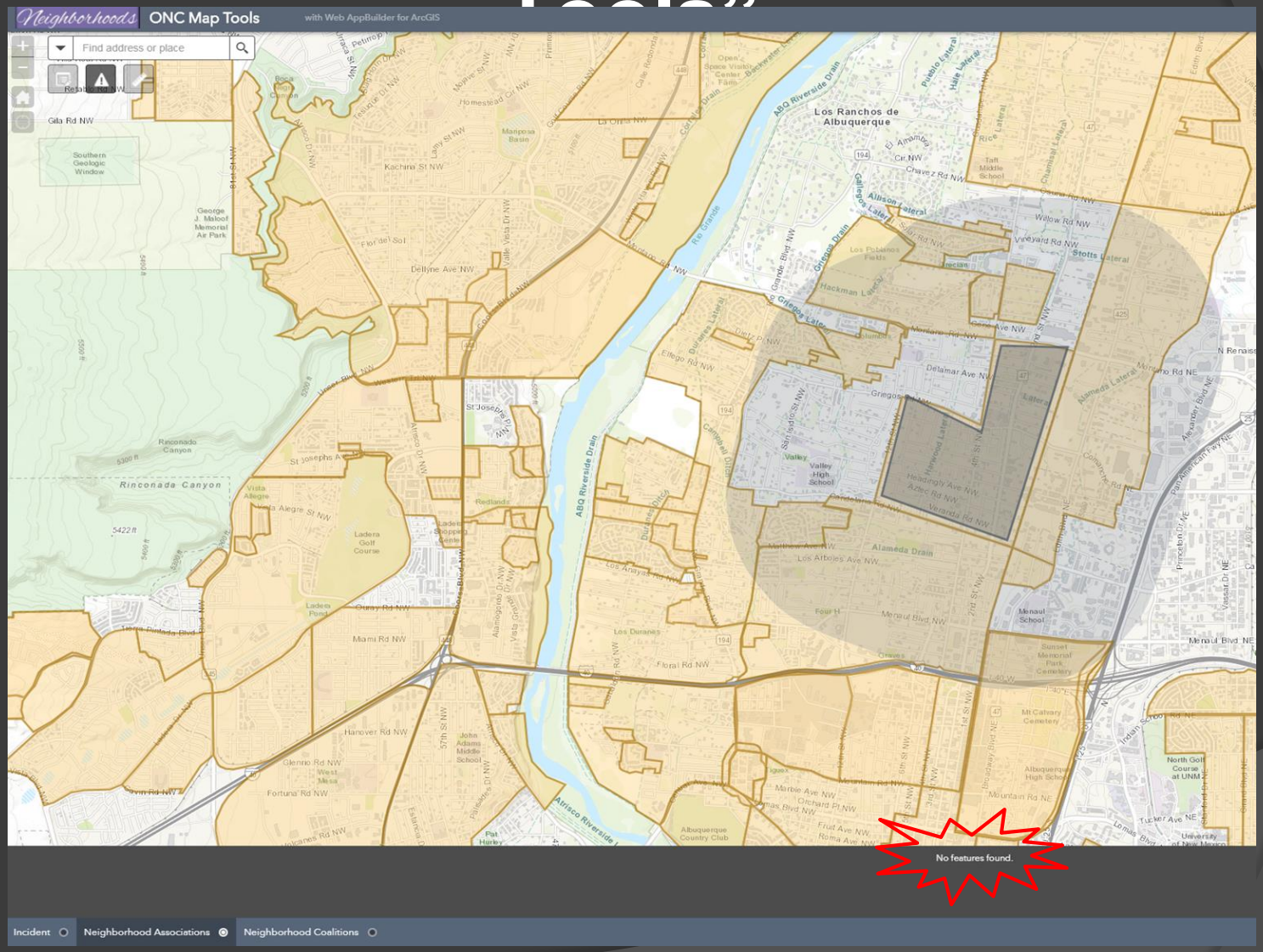
First application – basic template



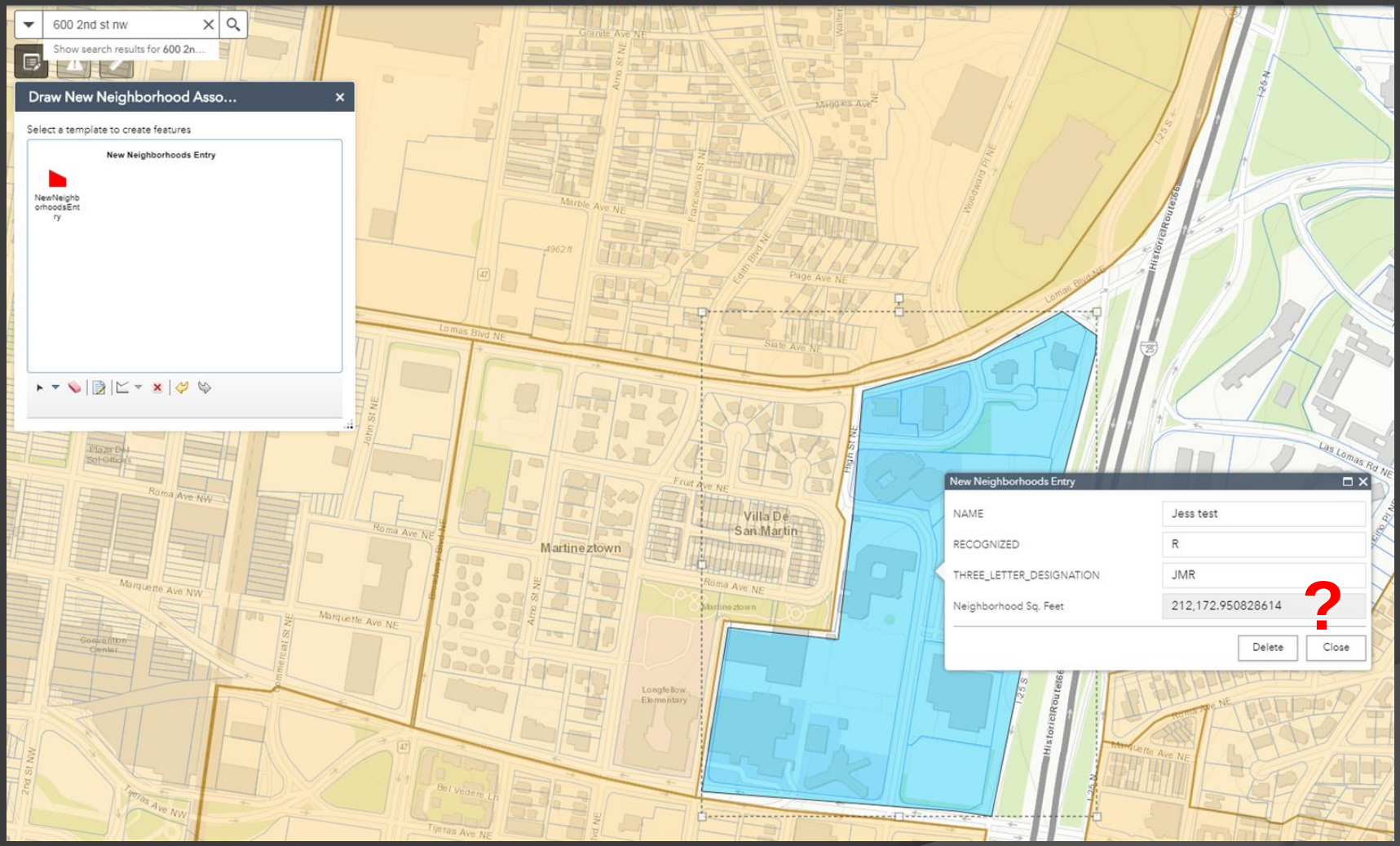
Web AppBuilder v1

- Transition to Web AppBuilder in 2017
- Incident widget for creating buffers and finding intersecting NA’s for notifications
- Edit tool for drawing new or changed association boundaries
- Clunky, hard to identify correct AOI, sometimes reported the weather

Web AppBuilder v1 – “ONC Map Tools”



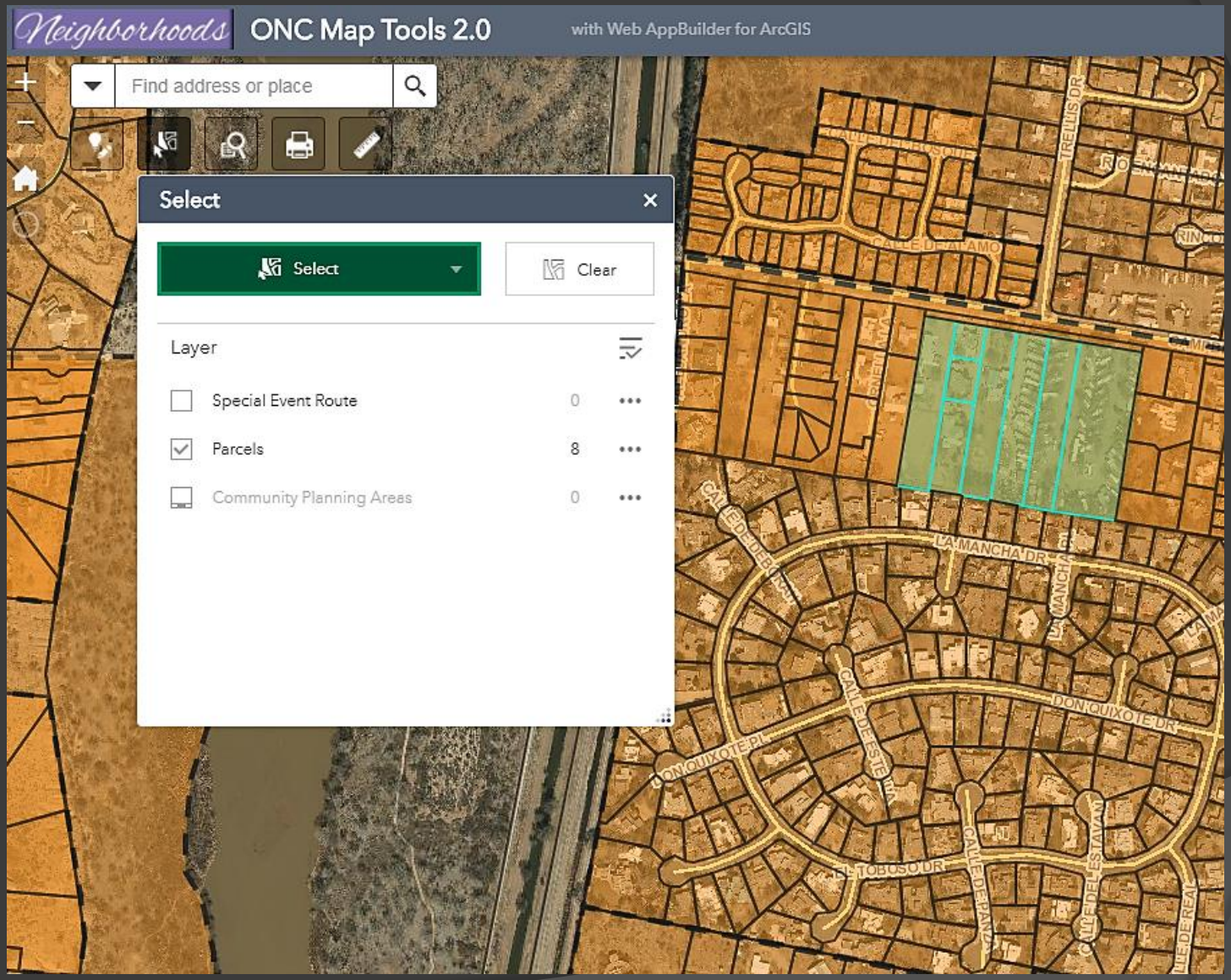
Edit Widget


600 2nd st nw
Show search results for 600 2n...
Draw New Neighborhood Asso...
Select a template to create features
New Neighborhoods Entry
NewNeighborhoodsEntry
New Neighborhoods Entry
NAME
Jess test
RECOGNIZED
R
THREE_LETTER_DESIGNATION
JMR
Neighborhood Sq. Feet
212,172.950828614
Delete
Close
?
Martineztown
Villa De San Martin
Longfellow Elementary
Lomas Blvd NE
Roma Ave NW
Roma Ave NE
Marquette Ave NW
Marquette Ave NE
Granite Ave NE
Marble Ave NE
Page Ave NE
State Ave NE
Fruit Ave NE
Tijeras Ave NW
Tijeras Ave NE
Las Lomas Rd NE
Historic Route 66
I-25 S
I-25 N

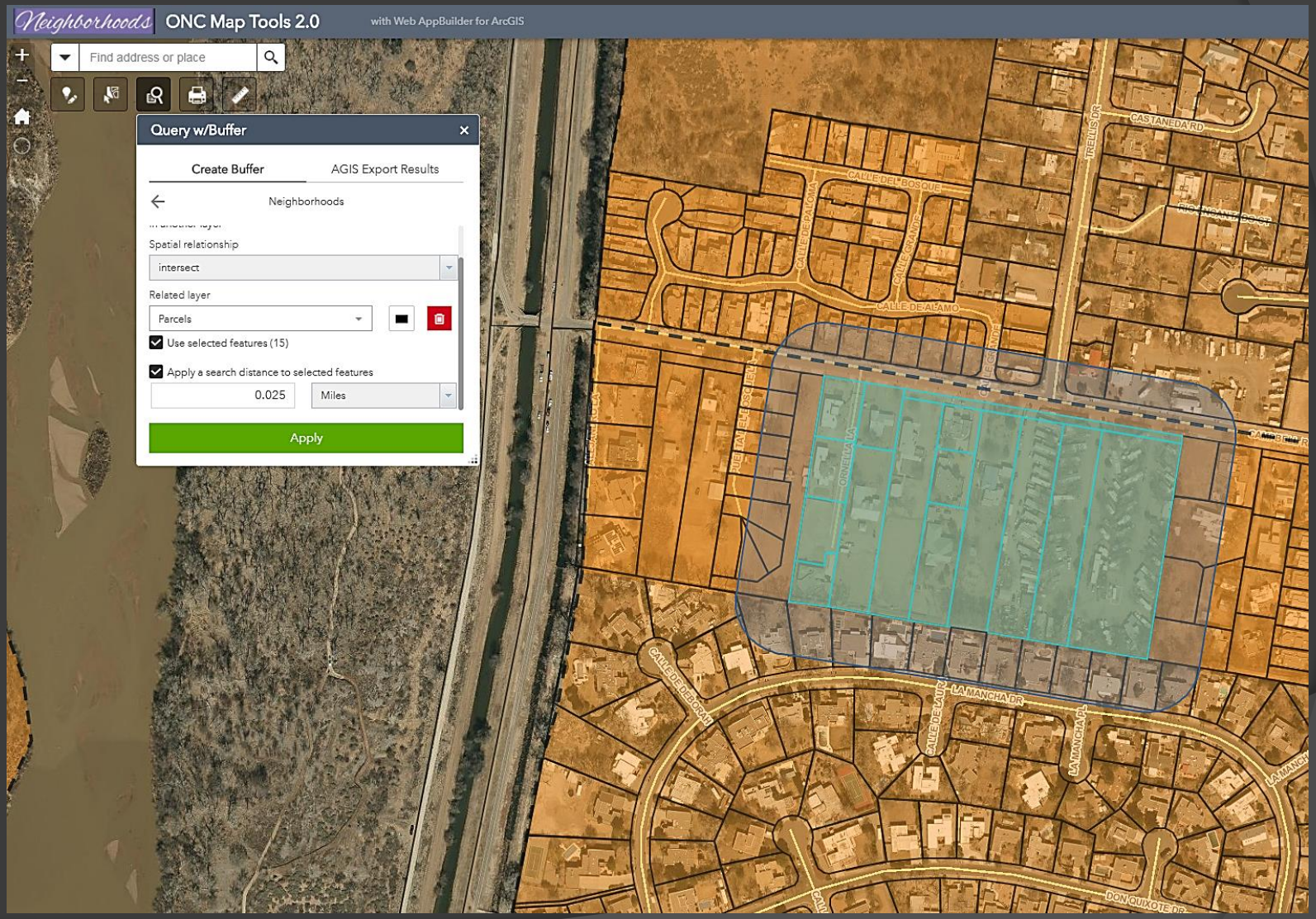
Web AppBuilder v2 – "ONC Map Tools 2.0"

- Query Widget
  - Spatial filter - selected feature from another layer
  - Honors related tables
- Published imagery as basemap
  - NAD 83 State Plane New Mexico Central
  - Label Acres using Arcade Expression
- Switched to Smart Editor

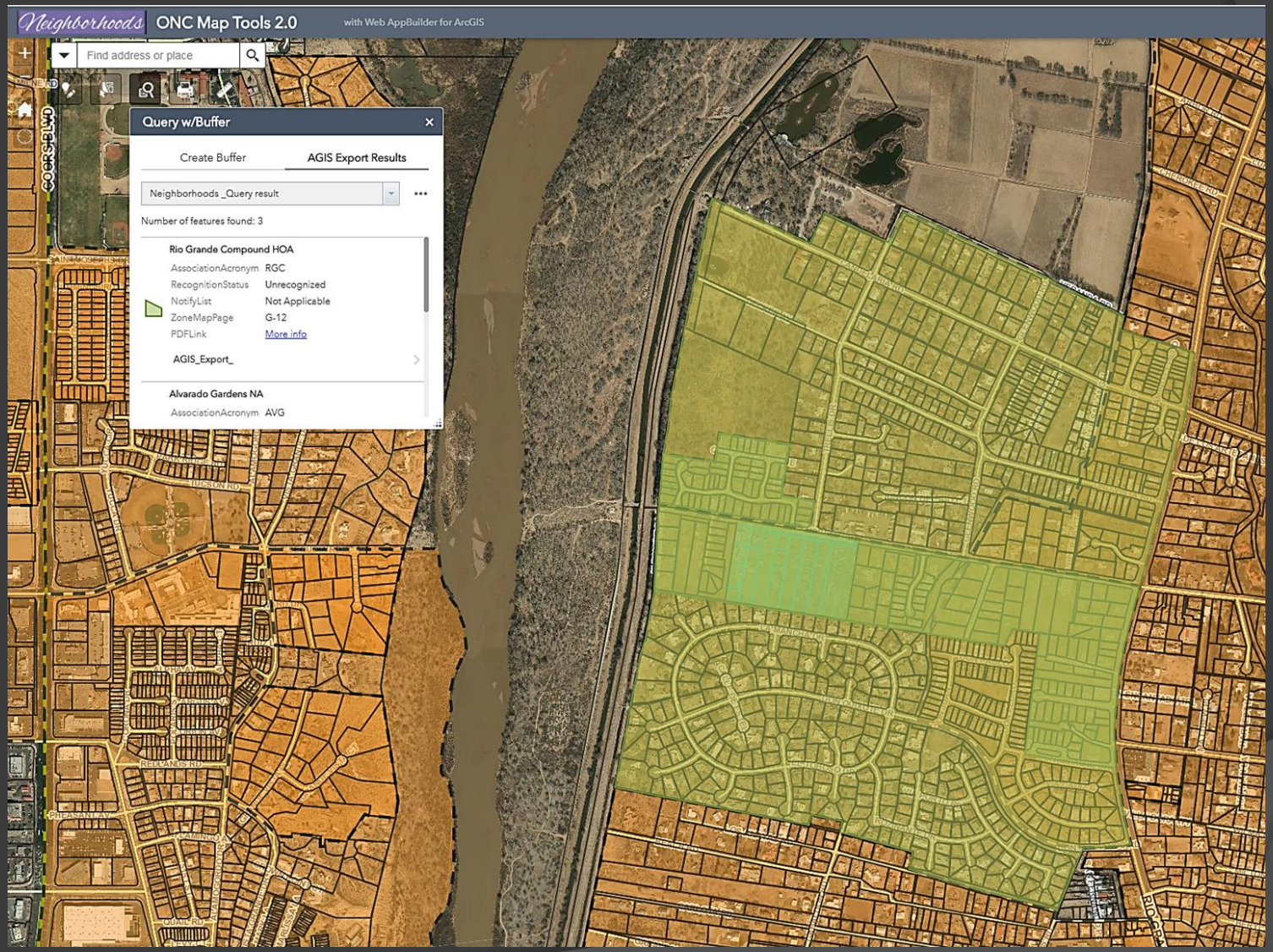
Select Parcels



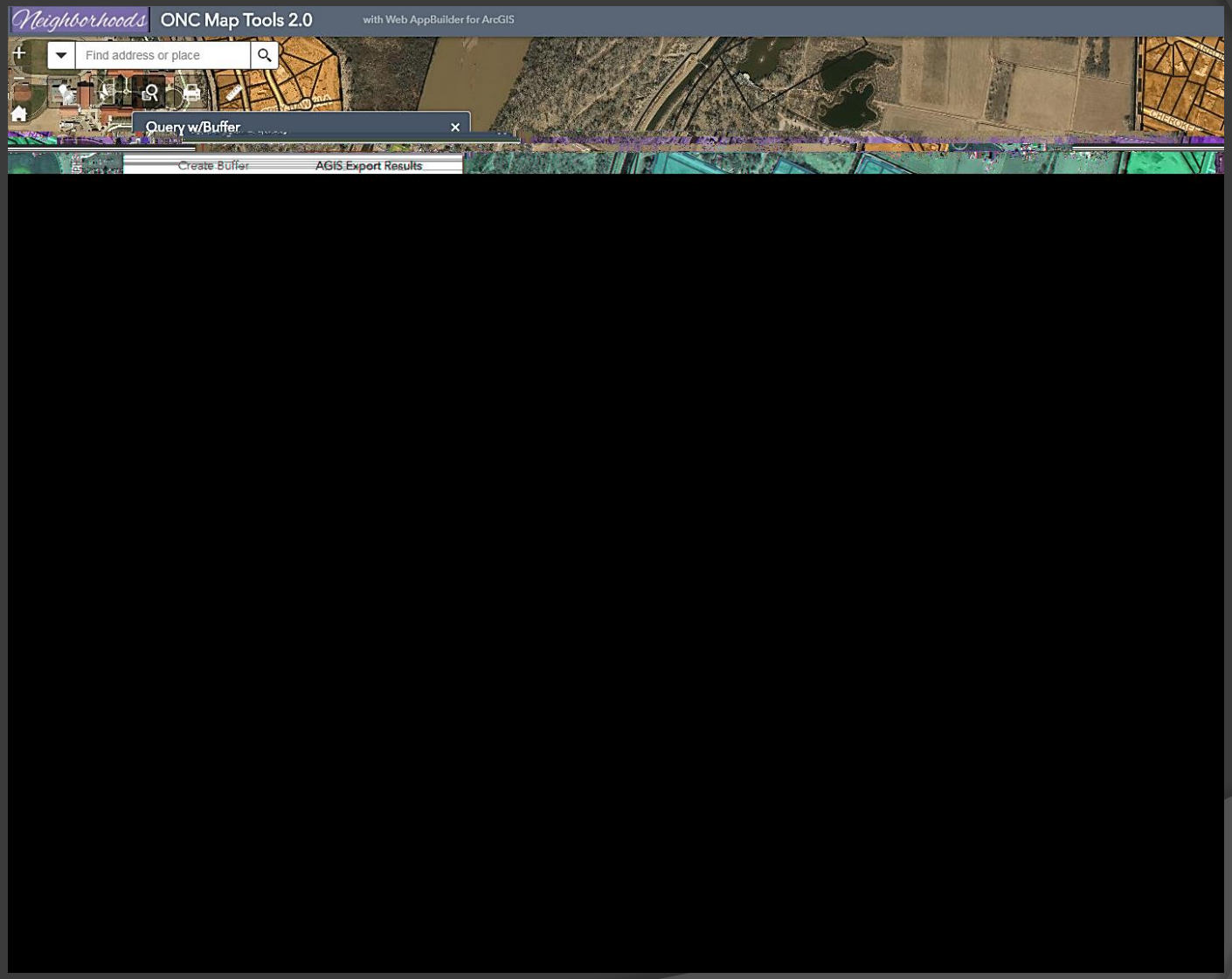
Query Tool


Neighborhoods
ONC Map Tools 2.0
with Web AppBuilder for ArcGIS
Find address or place
Query w/Buffer
Create Buffer
AGIS Export Results
Neighborhoods
Spatial relationship
intersect
Related layer
Parcels
Use selected features (15)
Apply a search distance to selected features
0.025
Miles
Apply
CASTANEDA RD
CALLE DEL BOSQUE
CALLE DE ALAMO
LA MANCHA DR
DON QUIXOTE DR

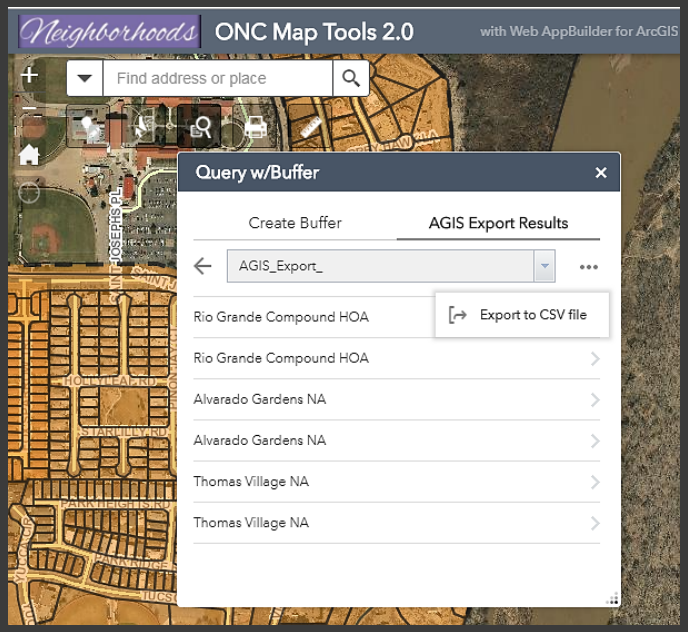
Results List



Related Records



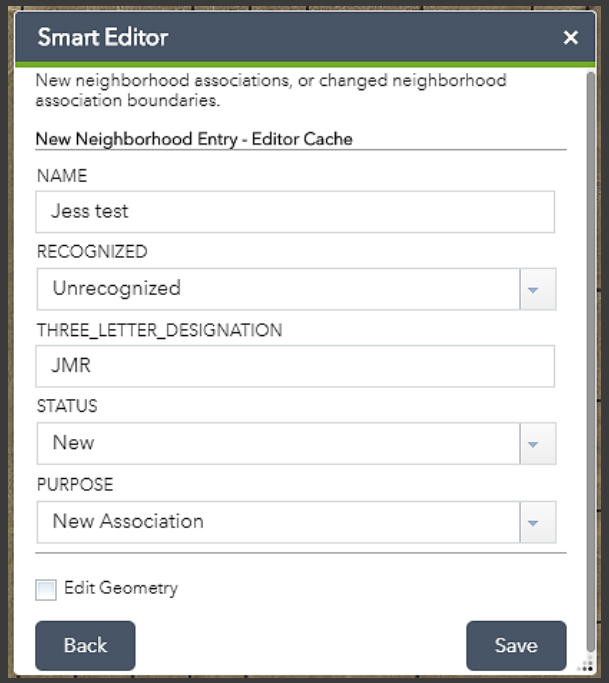
Export Contact List



SampleExport - Microsoft Excel

OBJECTID	Unique Acronym	Association Name	First Name	Last Name	Email	Alternative Email	Address Line 1	Address	City	State	Zip	Mobile Phone	Phone	Phone_Extension
16602	RGC	Rio Grande Compound HOA	Wile E.	Coyote	gottagetem@gmail.com		99999 De Alamo NW		Albuquerque	NM	87104		5051234567	
16603	RGC	Rio Grande Compound HOA	Porky	Pig	thatsallfolks@gmail.com		99999 Calle Del Bosque NW		Albuquerque	NM	87104	5051234567		
16825	AVG	Alvarado Gardens NA	Yosemite	Sam	lilylivered@gmail.com		99999 Candelaria Road NW		Albuquerque	NM	87107		5051234567	
16824	AVG	Alvarado Gardens NA	Buggs	Bunny	whatsupdoc@aol.com		99999 Calle San Angel NW		Albuquerque	NM	87107		5051234567	
16527	TVG	Thomas Village NA	Road	Runner	meepmeep@aol.com		99999 De Deborah NW		Albuquerque	NM	87104		5051234567	
16528	TVG	Thomas Village NA	Speedy	Gonzales	andaleandale@gmail.com		99999 Daniel NW		Albuquerque	NM	87104		5051234567	

Smart Editor



Current Status and Goals

- All association updates and contact list exports done in app
  - Modernized and streamlined ONC's workflow, is QA tool
  - Reduces human error, easy to train new people
- Liquor License Applications and Cultural Service event planning use versions of app
- Next steps- address labels
- Web AppBuilder Developer Edition

Websites

- ONC - http://www.cabq.gov/office-of-neighborhood-coordination
- AGIS - https://www.cabq.gov/planning/agis-maps
- Public Map Viewers - http://www.cabq.gov/gis

Questions?