

# IDENTIFICATION OF RESIDENCE WELLS ON THE CENTRAL COAST



Coalition for Urban Rural Environmental Stewardship



## **PROCESS OVERVIEW**

1. Use mapping technology to identify single family residence wells potentially contaminated with nitrates within the program boundary
2. Contact occupants of residences where wells may contain high nitrates
3. Perform sample on qualified wells to determine if qualified
4. Provide bottled water to qualified residences





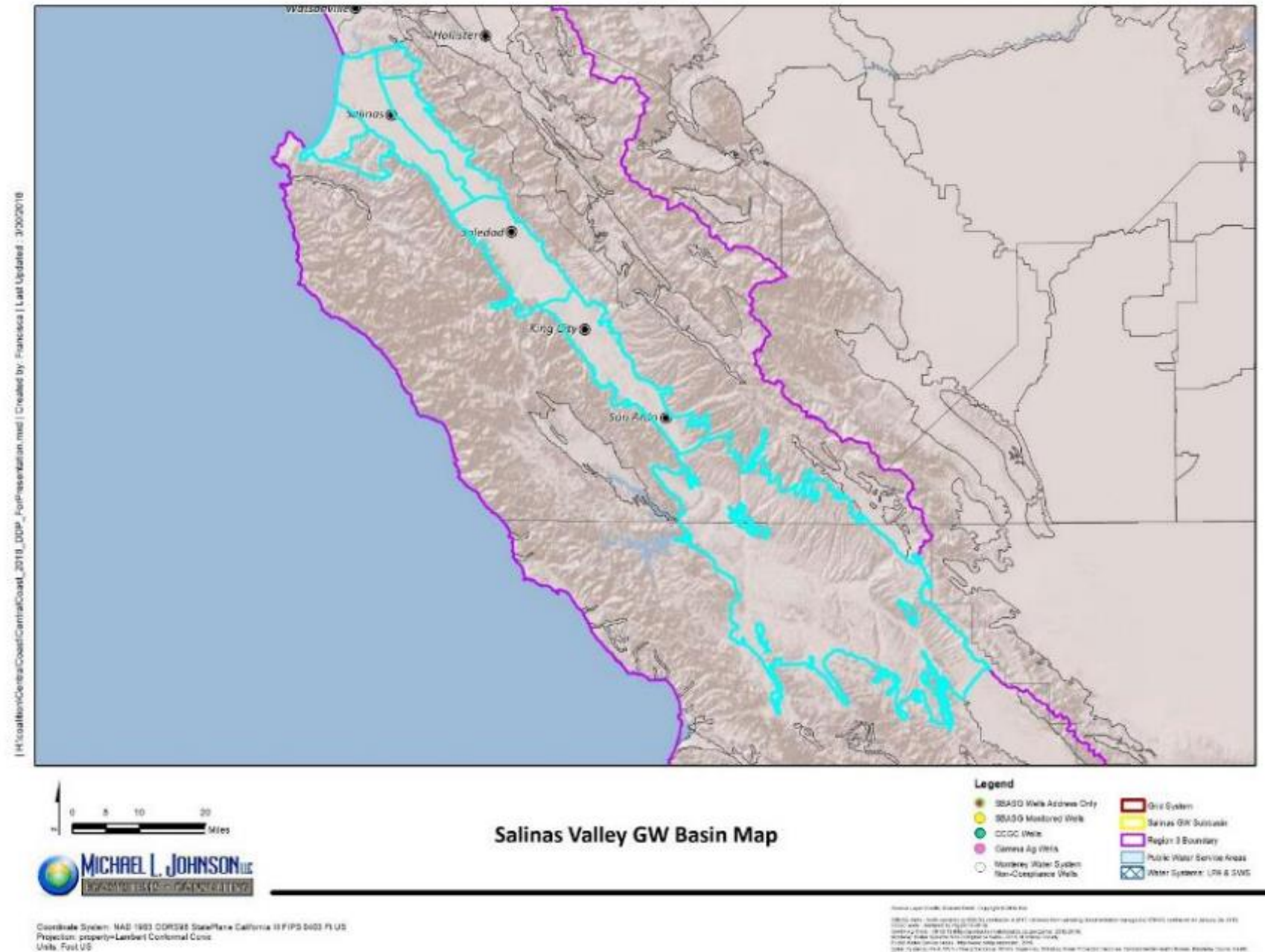
## GIS MAPPING SOURCES

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- **Salinas Groundwater Basin:** California Department of Water Resources
- **LPA/local primary agency water systems and SWS/small water systems:** Monterey County Health Department
- **Public Water Systems:** California Environmental Health Tracking Program
- **Parcels in the Irrigated Lands Regulatory Program:** GeoTracker/GAMA
- Wells sampled by Central Coast Groundwater Coalition (CCGC) from 2013-2018
- **Wells/Systems supplied water in Phase I:** CURES
- **County Parcels:** County of Monterey Assessor's Office, March 2018

# SALINAS GW SUBBASIN

Source: California  
Department of Water  
Resources,  
BI18v3NAD27UTM10,  
2004, layer.





AREA OF PROGRAM

The northern region of Salinas GW Subbasin from San Ardo to Salinas.

Source: Regional Water Quality Control Board,  
[http://gispublic.waterboards.ca.gov/arcgis/rest/services/Administrative/Regional\\_Boundaries/MapServer](http://gispublic.waterboards.ca.gov/arcgis/rest/services/Administrative/Regional_Boundaries/MapServer),  
2015

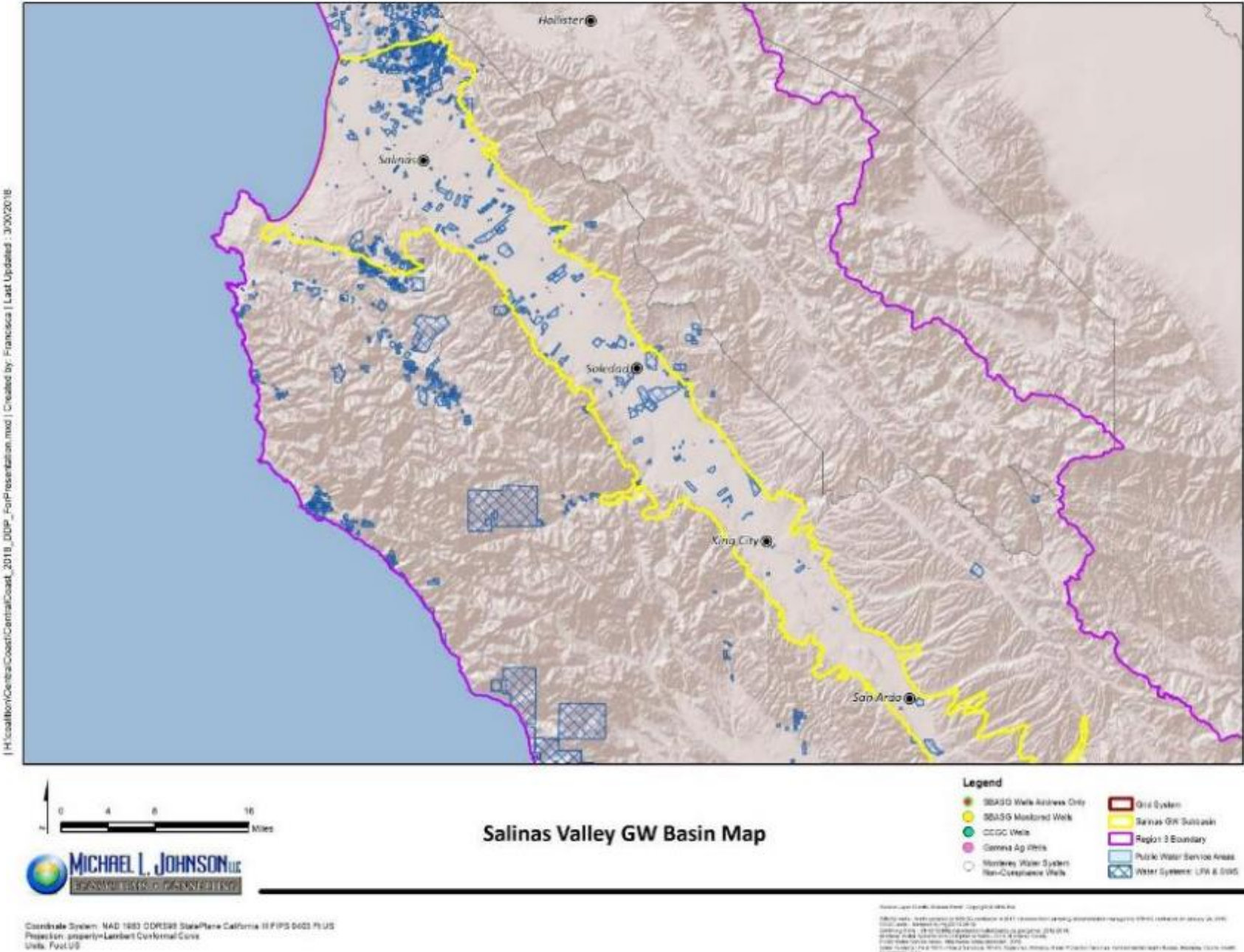


# WATER SYSTEMS (LPA & SWS)

LPA – local primary  
agency water systems

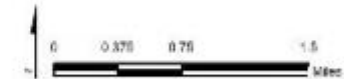
# SWS – small water systems

Source: Monterey County Health Department





EXAMPLE:  
WATER  
SYSTEMS  
(LPA & SWS)



**Legend**

- SSASG Water Address Only
- SSASG Mismatched Water
- SSASG Water
- Geometric Address
- Geometric Water System
- Non-Compliance Water
- GIS System
- Sanitary Sewer System
- Region 3 Boundary
- Public Water Service Area
- Water System: LAM & SWS

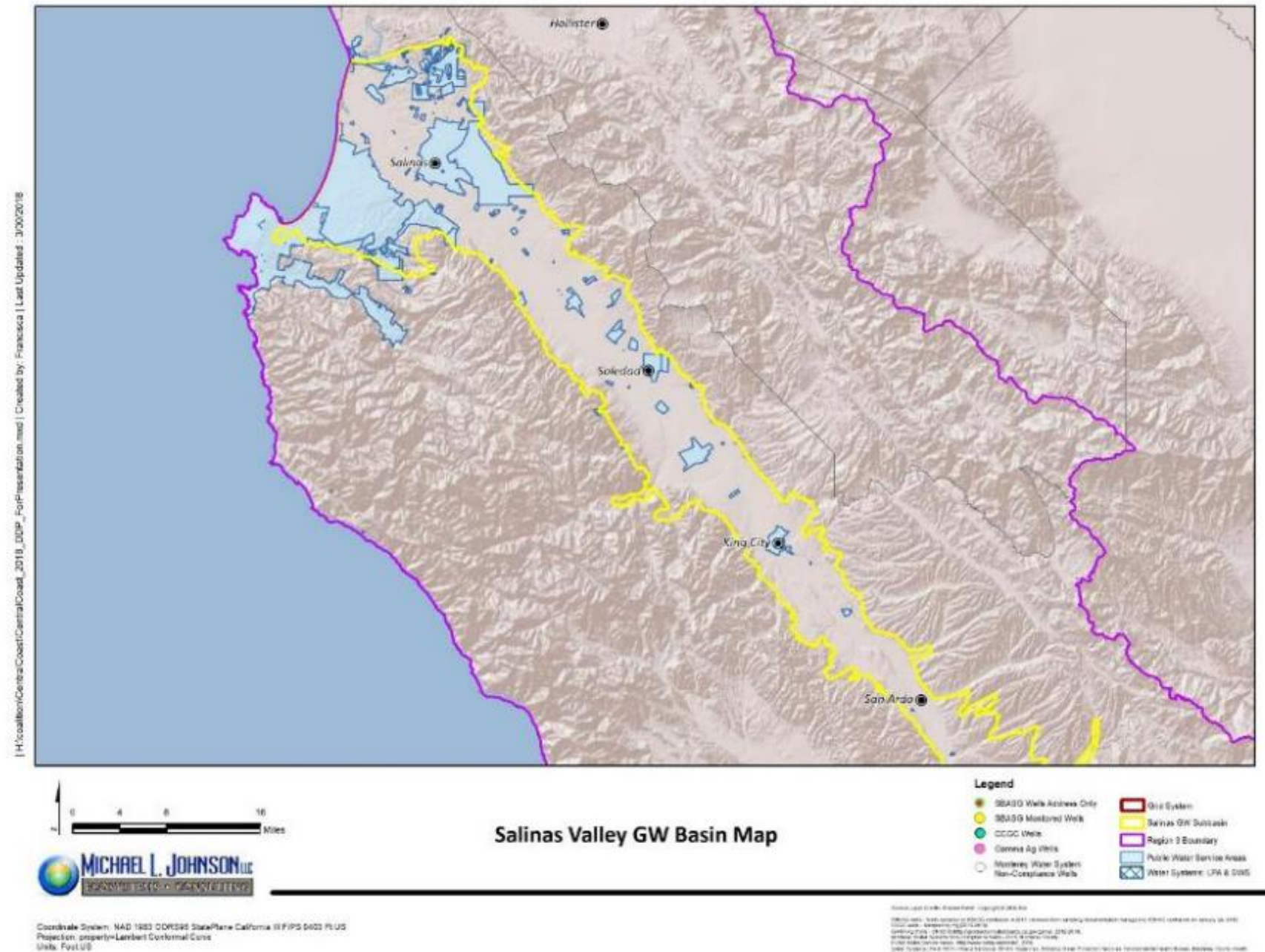
Coordinate System: NAD 1983 CONUS StatePlane California FIPS 5002 Feet US  
Projection: property=Lambert Conformal Conic  
Units: Foot US

**Source:** <http://www.fishbase.org>, <http://www.fishbase.org/SpeciesCatalogue.php?genus=Hypoclinemus&species=&country=USA>



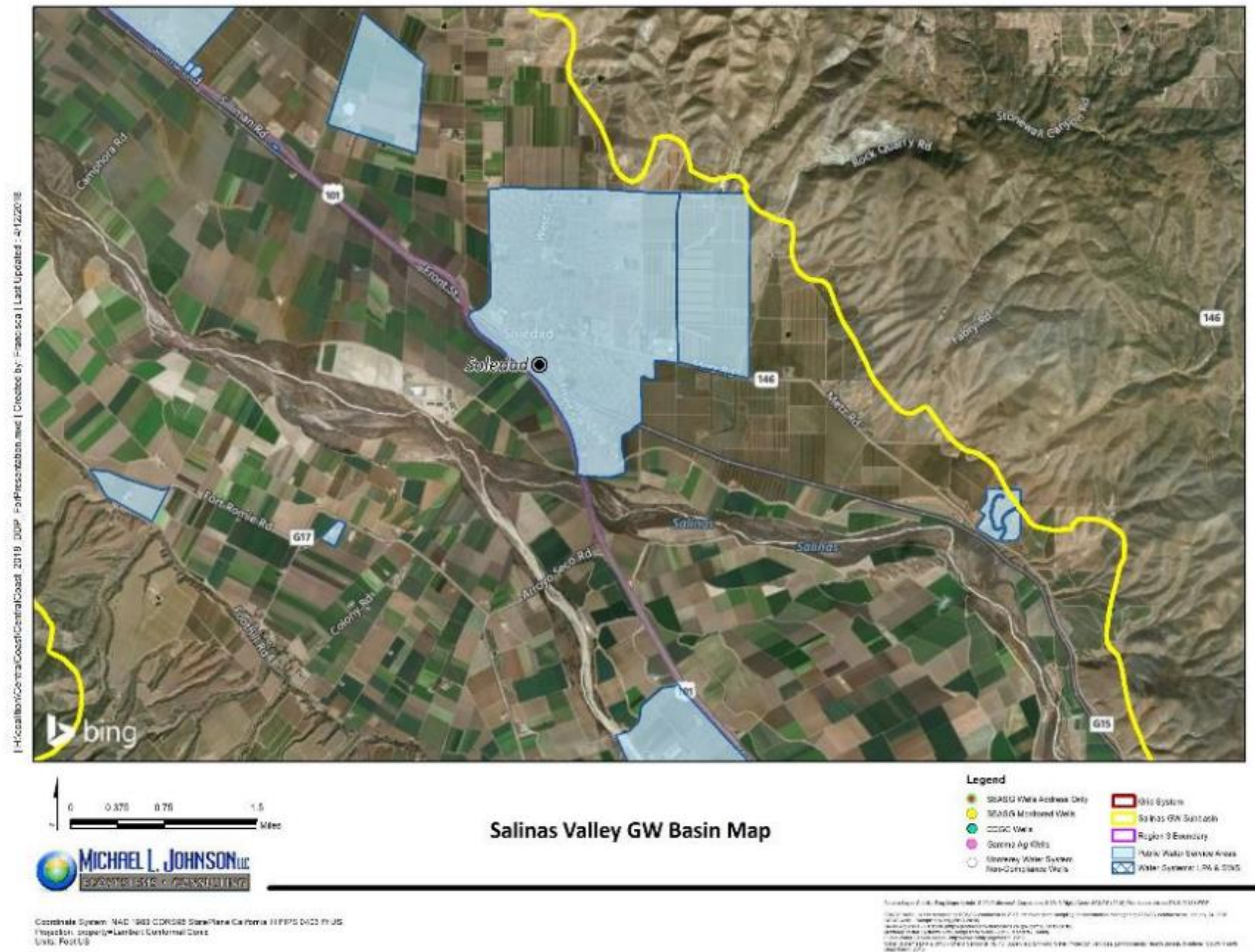
# PUBLIC WATER SYSTEMS

Source: California  
Environmental Health  
Tracking Program,  
[http://www.cehtp.org/  
water/](http://www.cehtp.org/water/), Jan 2018





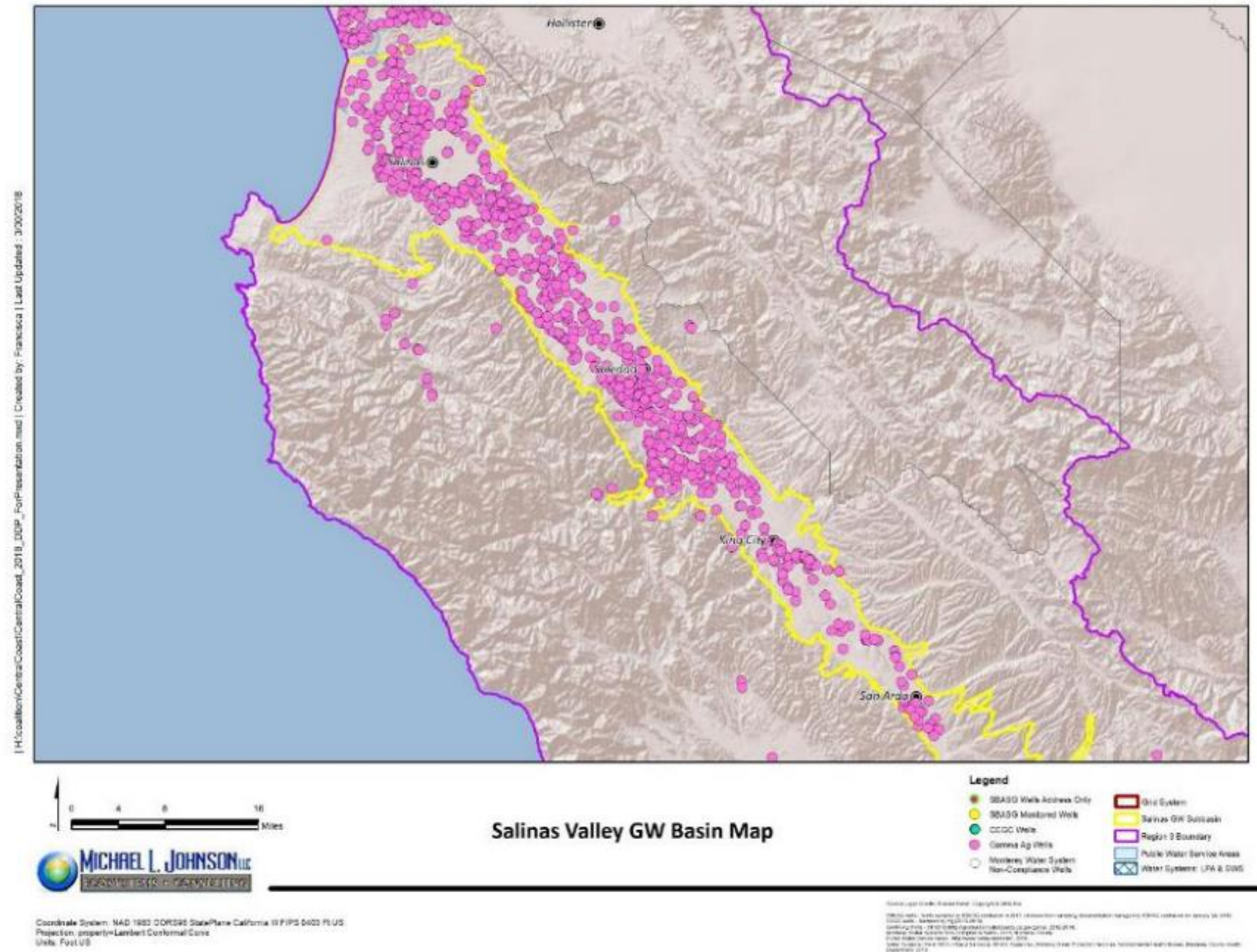
EXAMPLE:  
PUBLIC WATER  
SYSTEMS





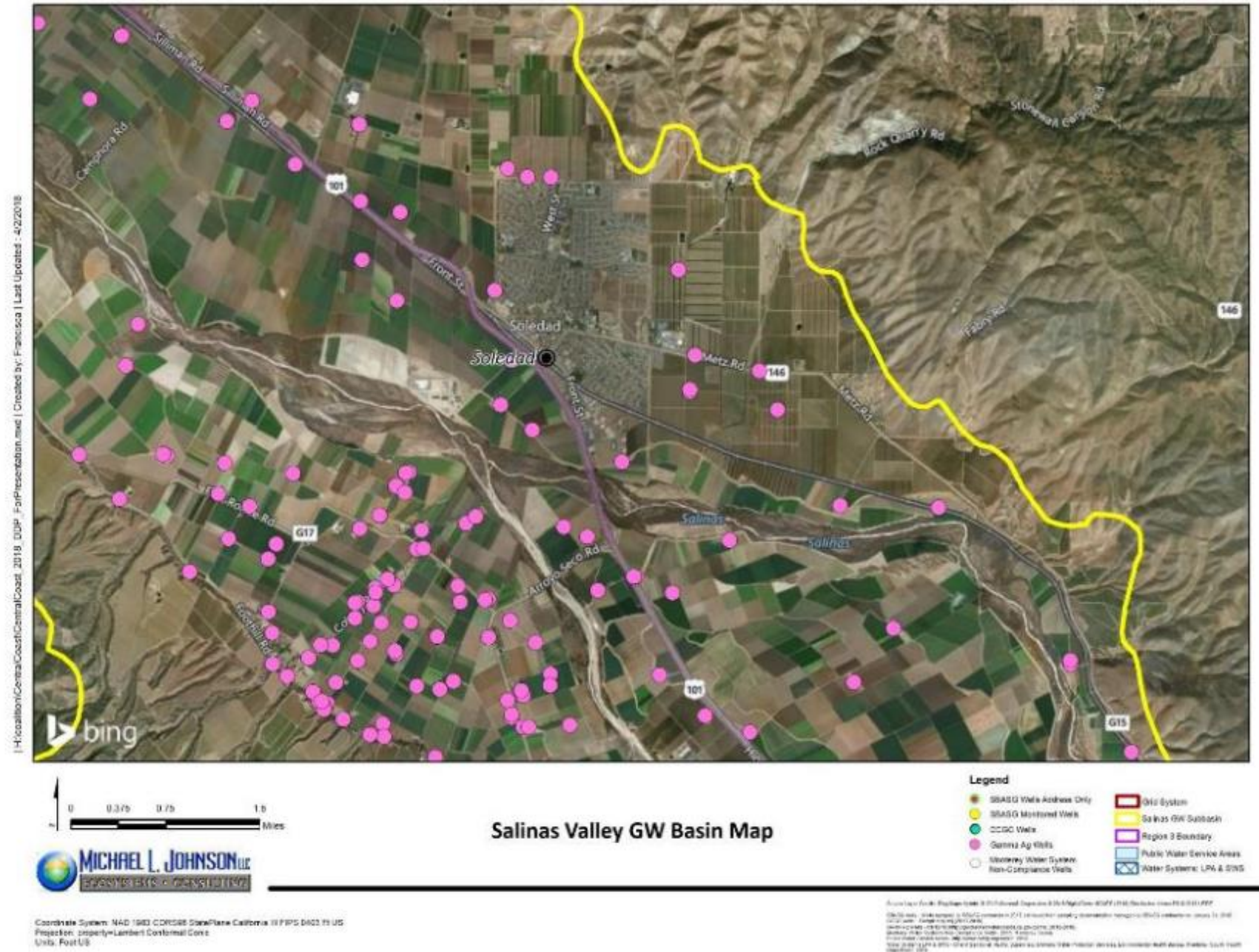
WELL DATA  
FROM IRRIGATED  
LANDS  
REGULATORY  
PROGRAM  
(GEOTRACKER/  
GAMA)

Source:  
Geotracker/GAMA,  
January 2018 download  
(<http://geotracker.waterboards.ca.gov/gama/>)





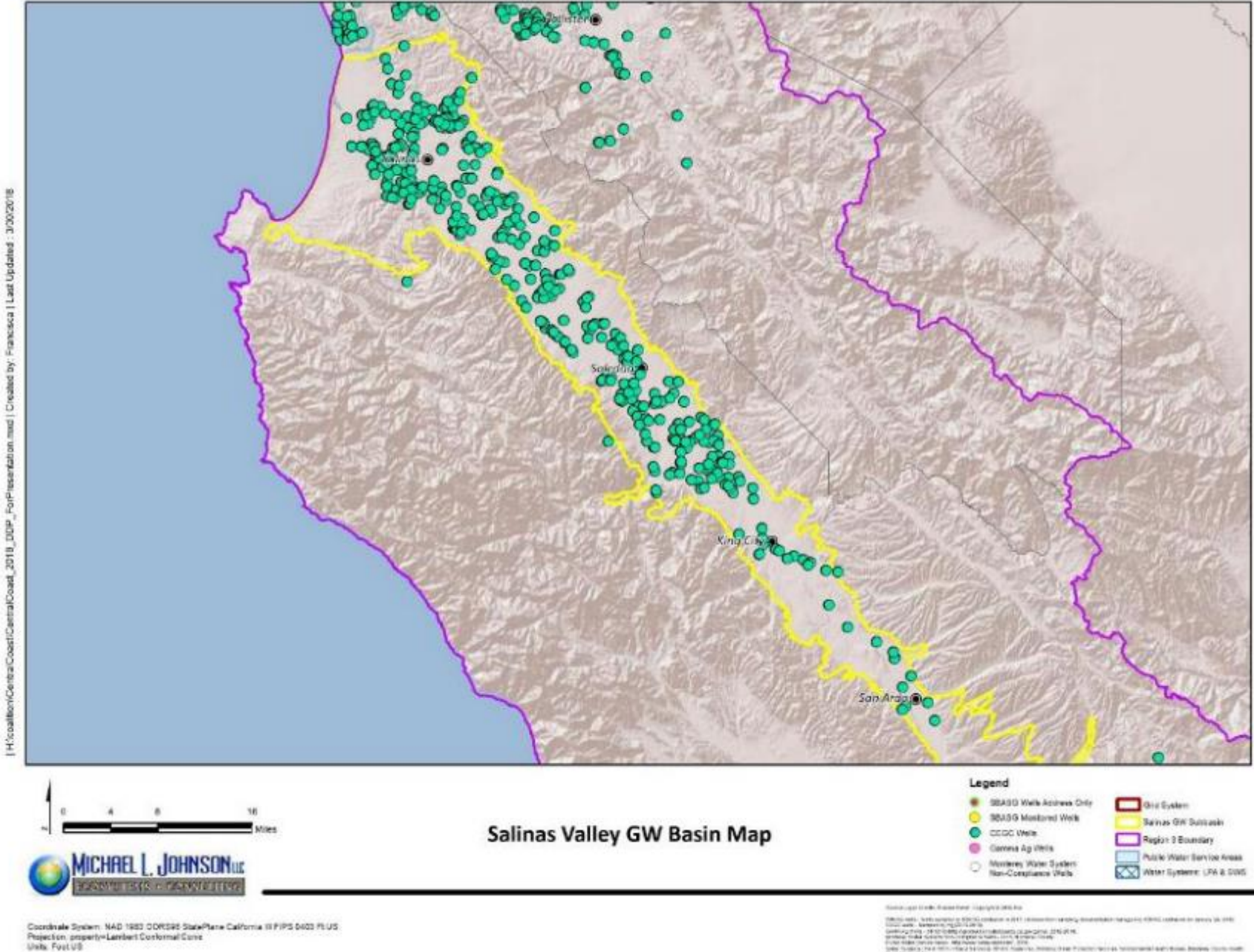
EXAMPLE:  
WELL DATA  
FROM IRRIGATED  
LANDS  
REGULATORY  
PROGRAM  
(GEOTRACKER/  
GAMA)





# WELL DATA FROM CCGC SAMPLING

# Wells sampled by MLJ 2013 – Jan 2018





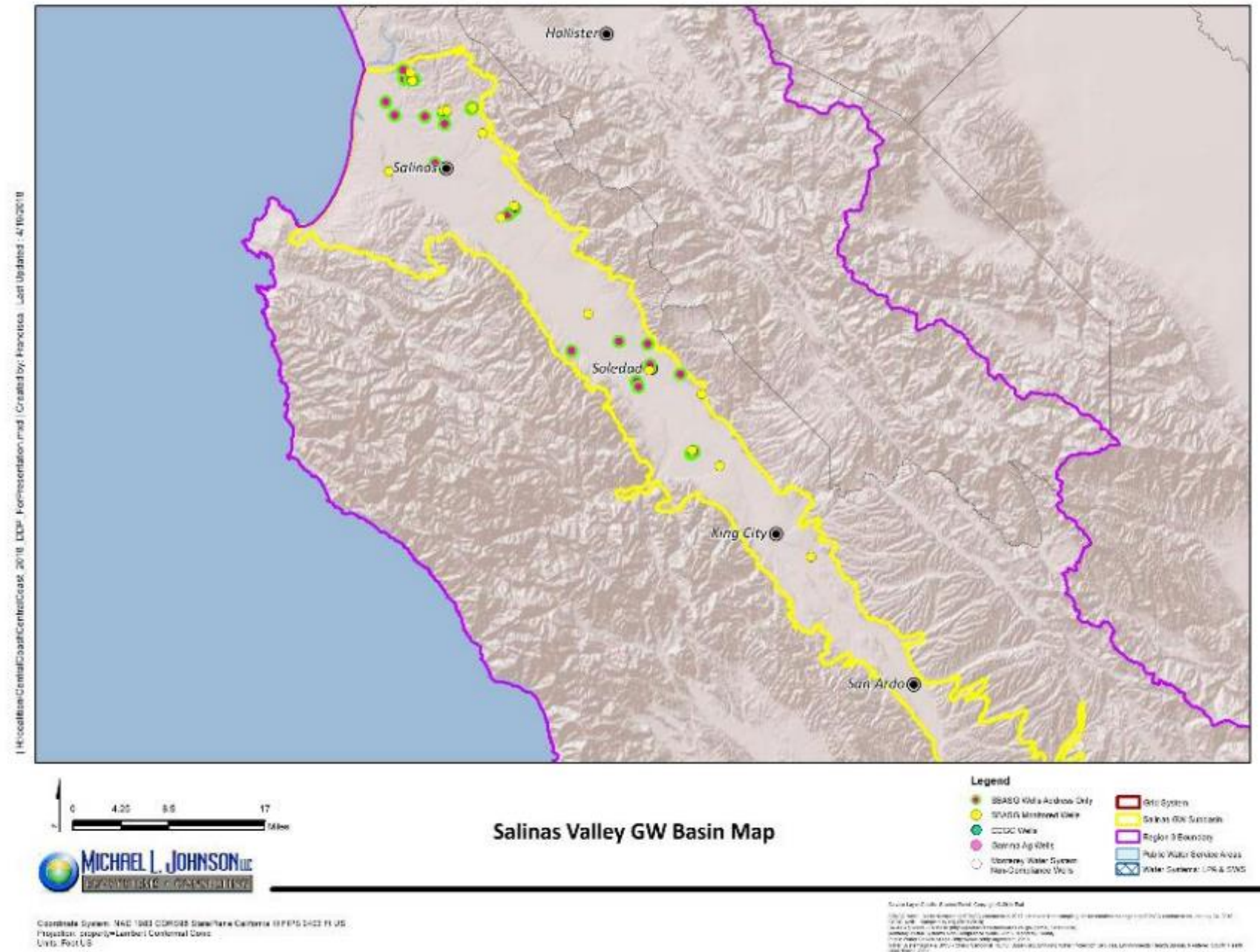
EXAMPLE:  
WELL DATA  
FROM CCGC  
SAMPLING



# WELL DATA FROM SBASG SAMPLING

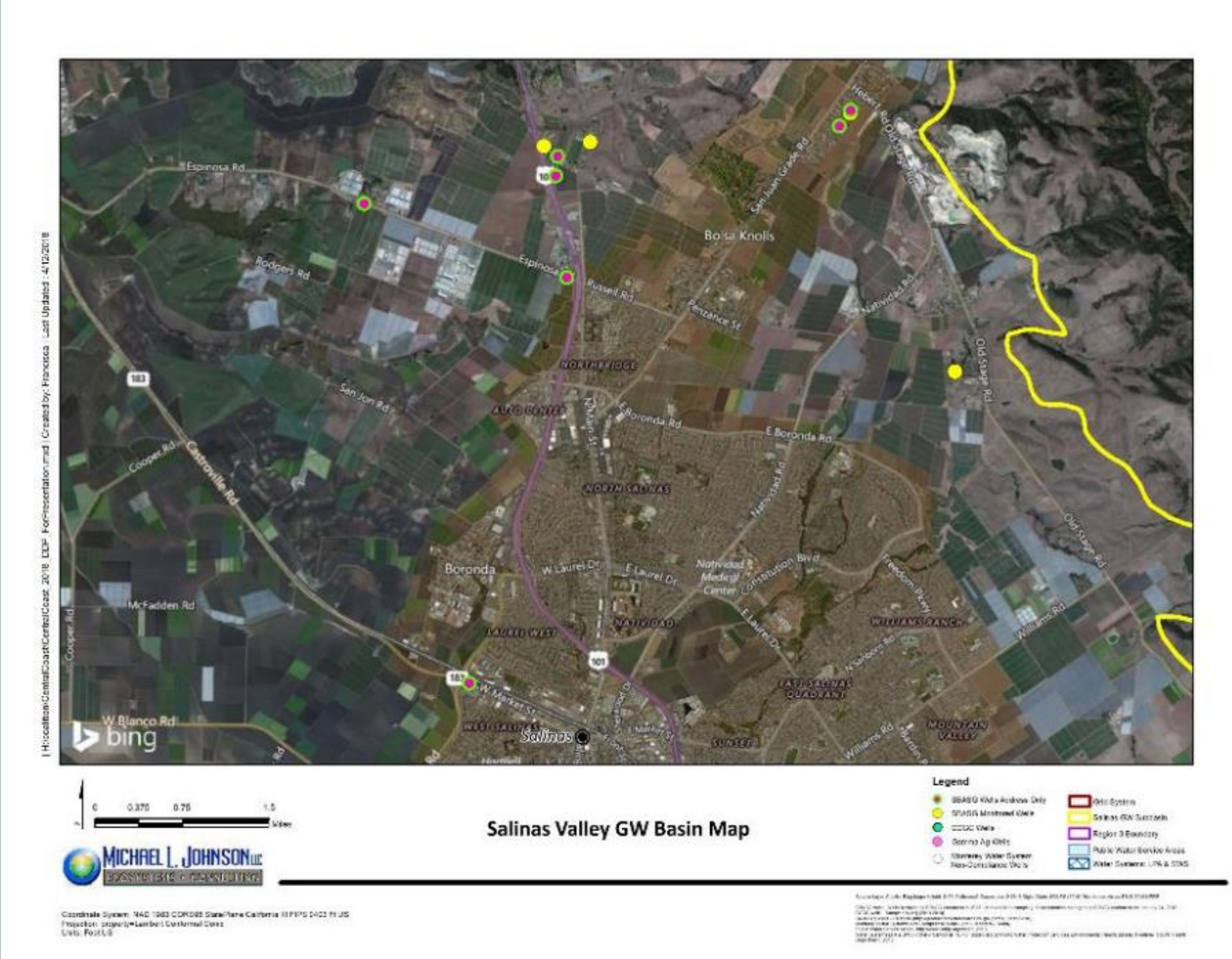
- Wells sampled by SBASG/CURES in 2017; retrieved from sampling documentation
- These wells
  - Are part of the EJCW grant-funded program
  - Declined water
  - Are an ILRP member

Source: SBASG program



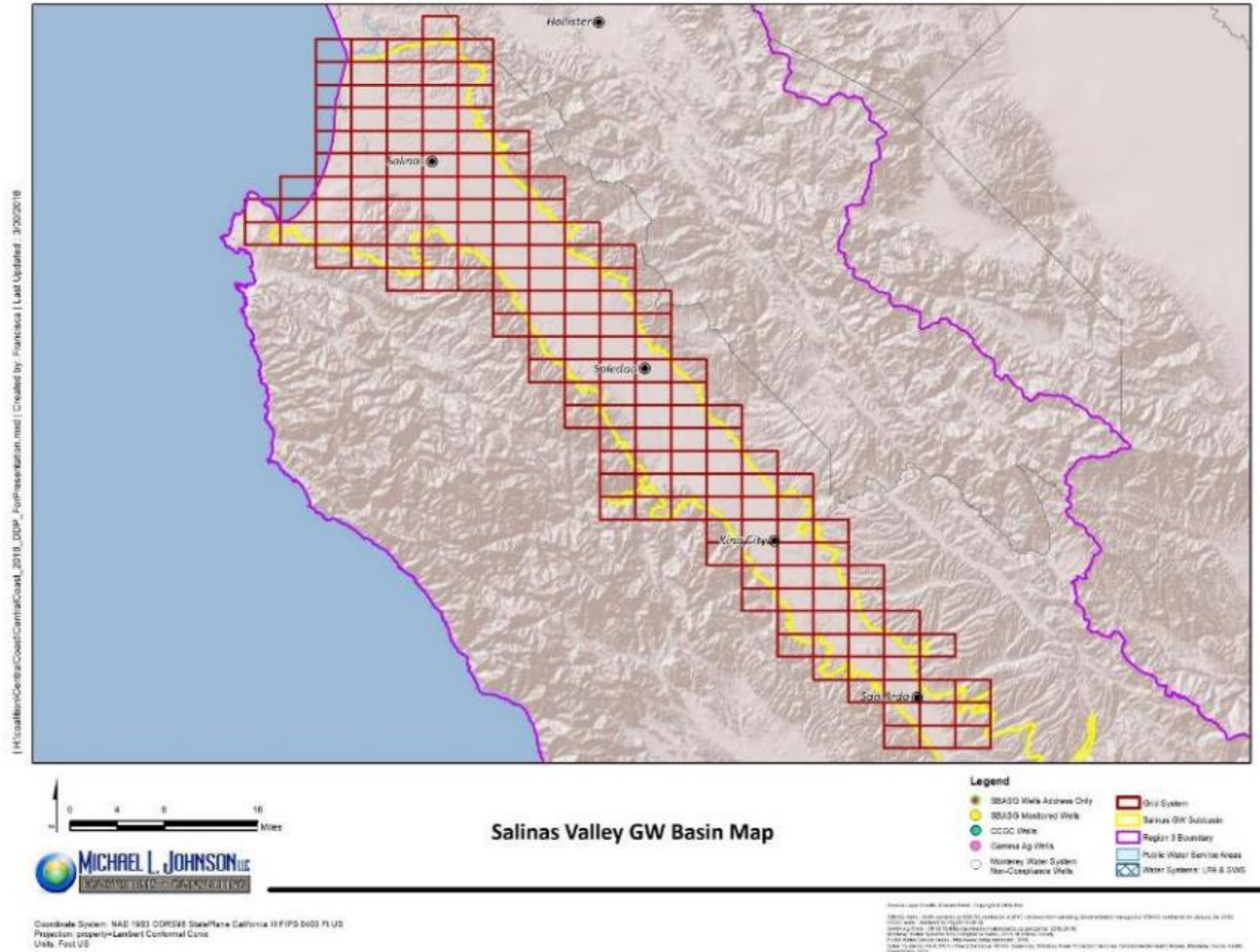


EXAMPLE:  
WELL DATA  
FROM SBASG  
SAMPLING



GRID LAYER

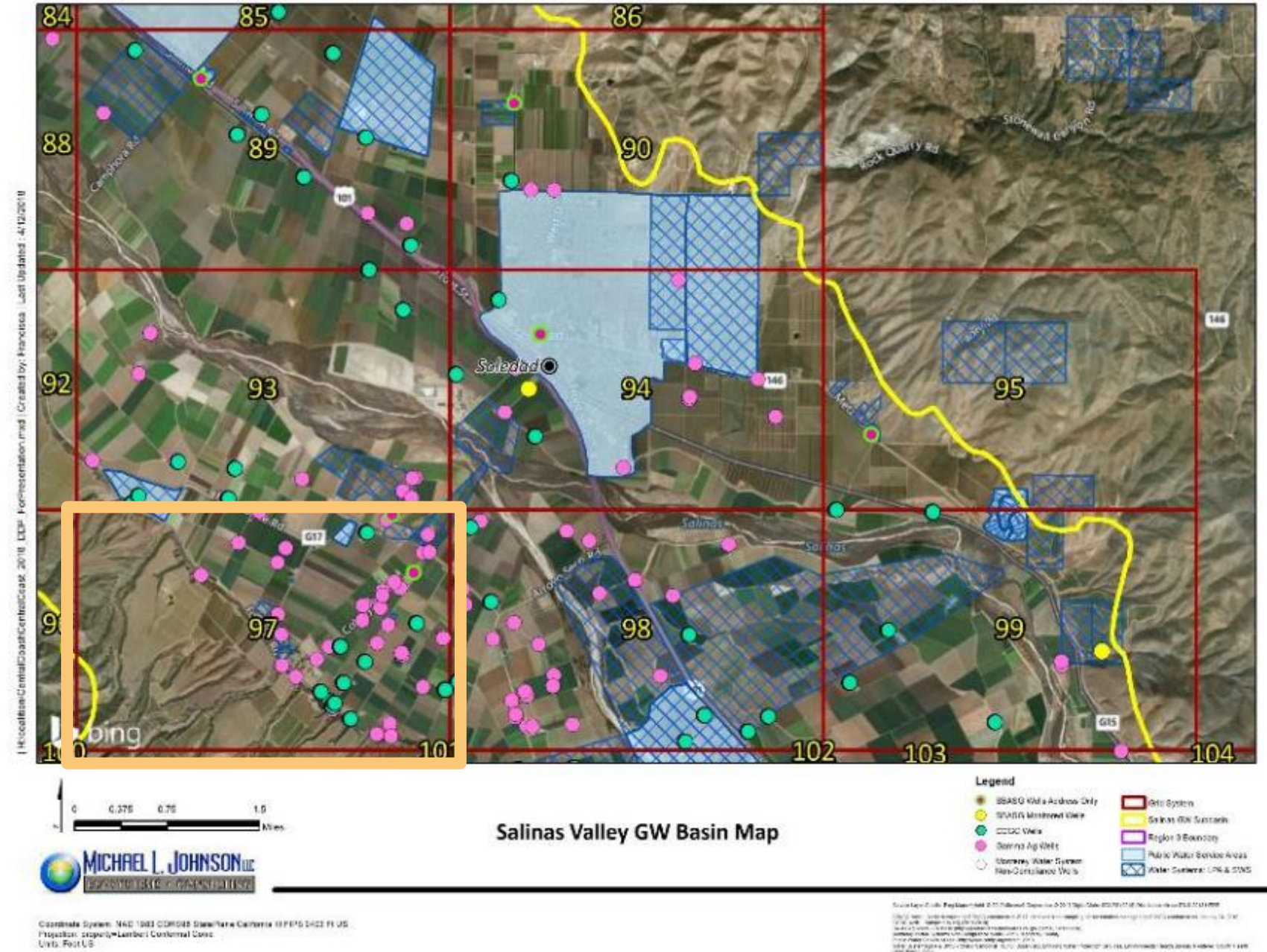
A layer of grids 2 miles x 3 miles was added over the program area





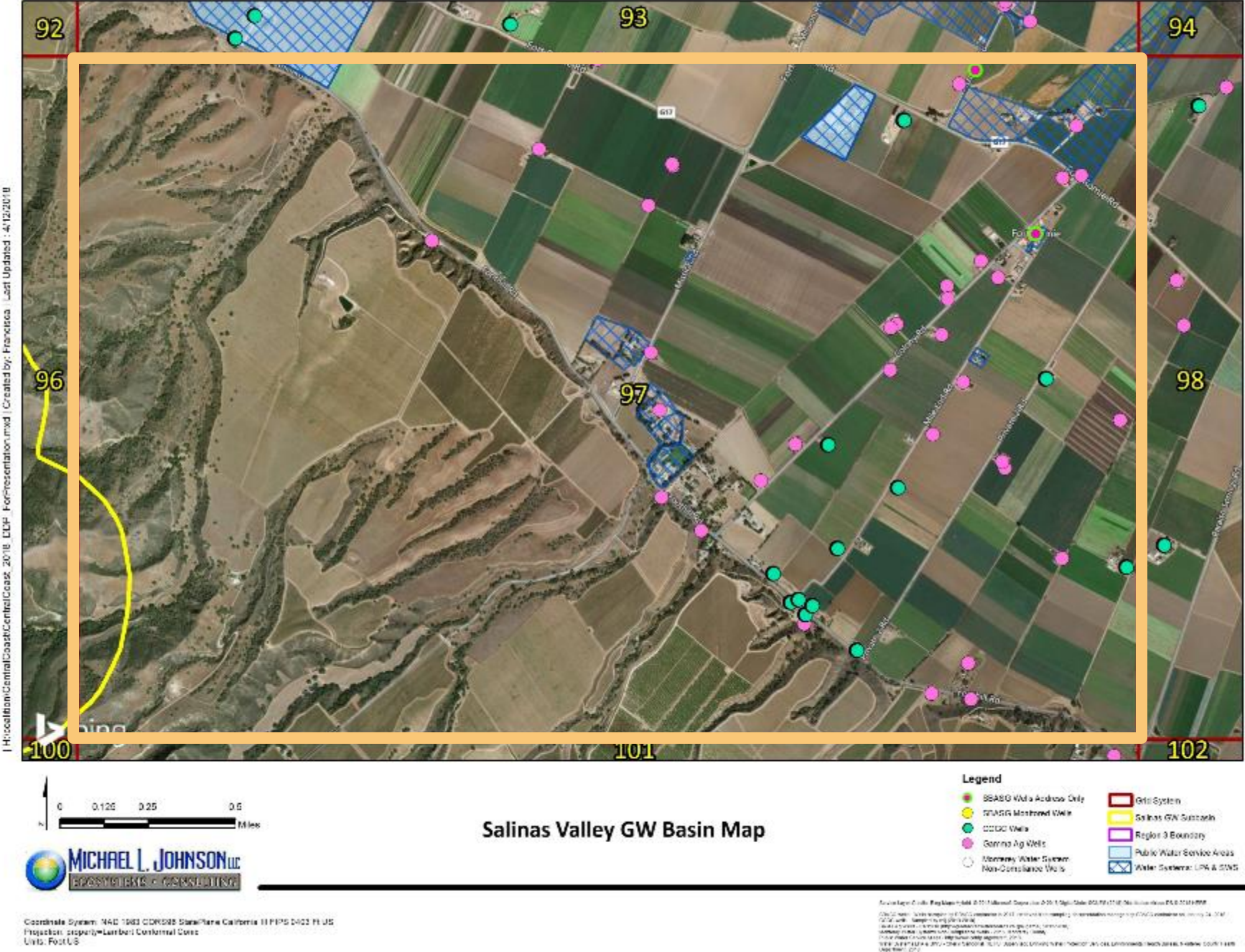
ALL LAYERS

- Salinas GW subbasin
- Water systems (LPA & SWS)
- Public water systems
- Well data from ILRP (Geotracker/GAMA)
- Well data from CCGC sampling
- Well data from SBASG sampling
- Grid layers





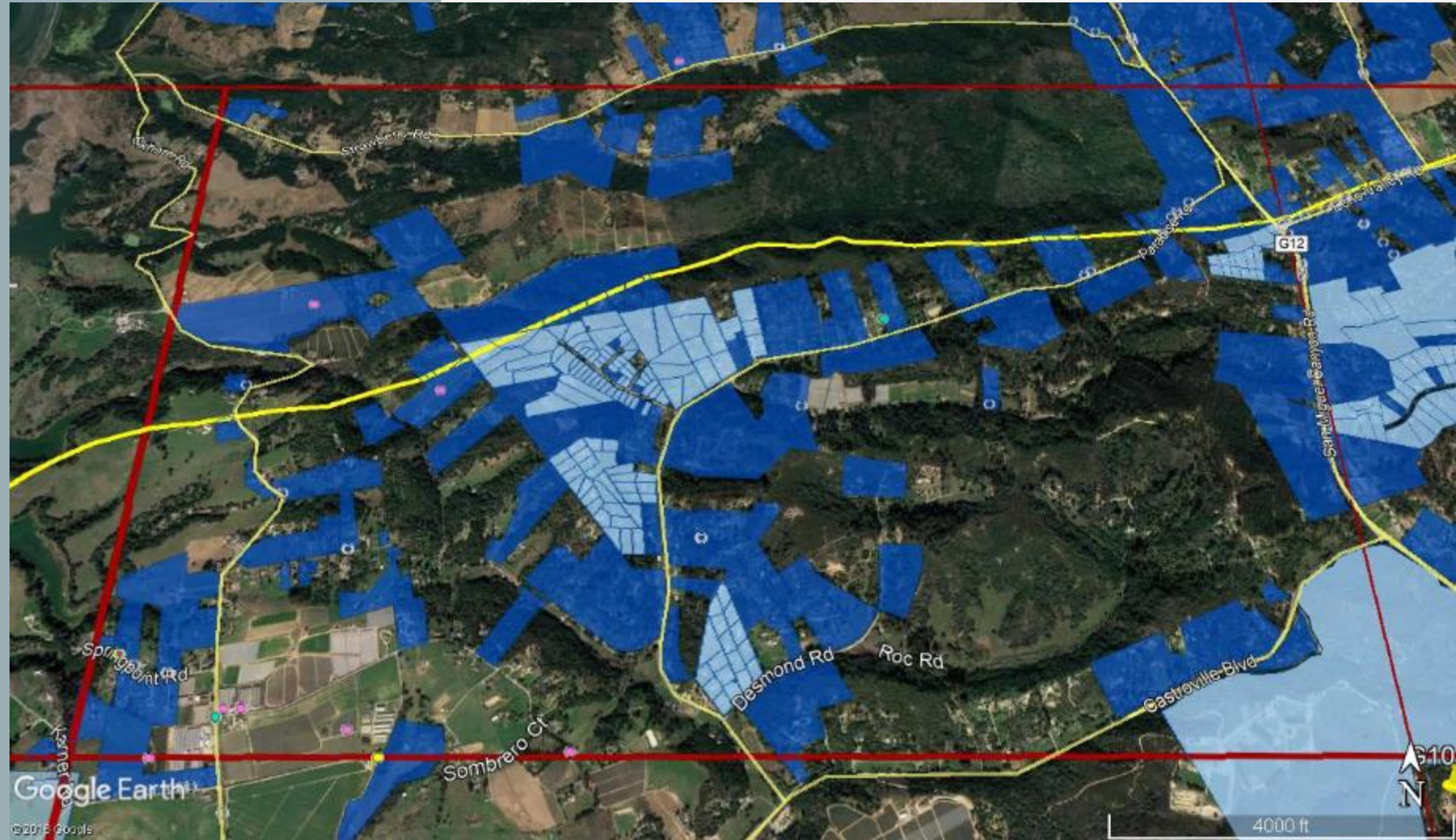
EXAMPLE:  
SINGLE  
GRID WITH  
ALL LAYERS





# SELECTION OF POTENTIAL CANDIDATE RESIDENCES/ WELLS

Overlaid Google  
Earth map with layers





# SELECTION OF POTENTIAL CANDIDATE RESIDENCES/ WELLS

Google Earth map with parcels  
(APN) outlined

Source: County of Monterey  
Assessor's Office,  
<https://montereycountyopen-data-12017-01-13t232948815z-montereyco.opendata.arcgis.com/>



Salinas Valley GW Basin Map

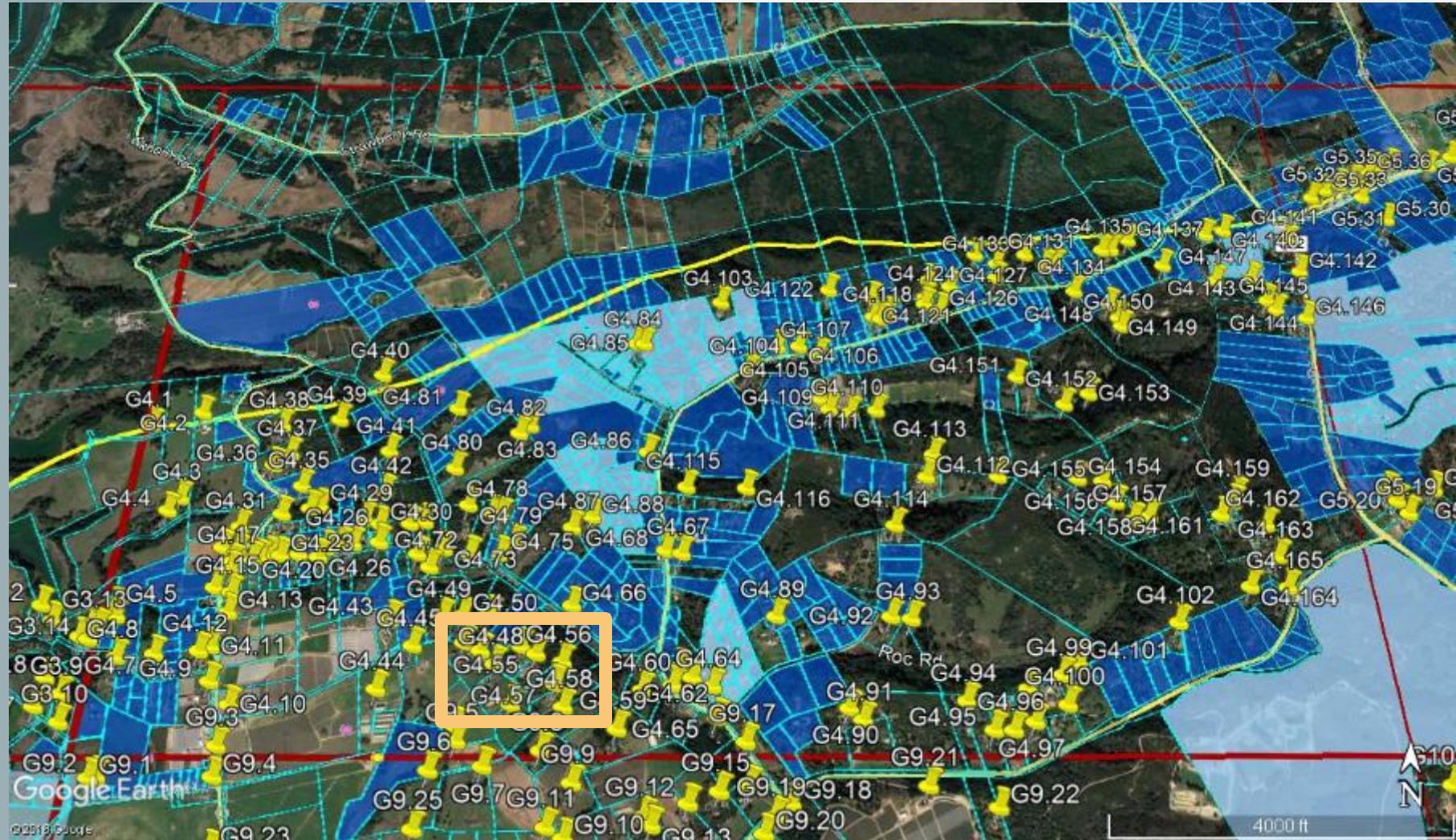
## Legend

- SBASG Wells Address Only
- SBASG Monitored Wells
- CCOC Wells
- Gamma Ag Wells
- Monterey Water System Non-Compliance Wells
- Grid System
- Salinas GW Subbasin
- Region 3 Boundary
- Public Water Service Areas
- Water Systems: LPA & SWS



# SELECTION OF POTENTIAL CANDIDATE RESIDENCES/ WELLS

Potential residences are identified by noting/ignoring ILRP wells, public water systems and water service areas.






# SELECTION OF POTENTIAL CANDIDATE RESIDENCES/ WELLS

A closeup of  
potential residences  
showing parcel  
outline



## Salinas Valley GW Basin Map

 Potential candidate

### Legend

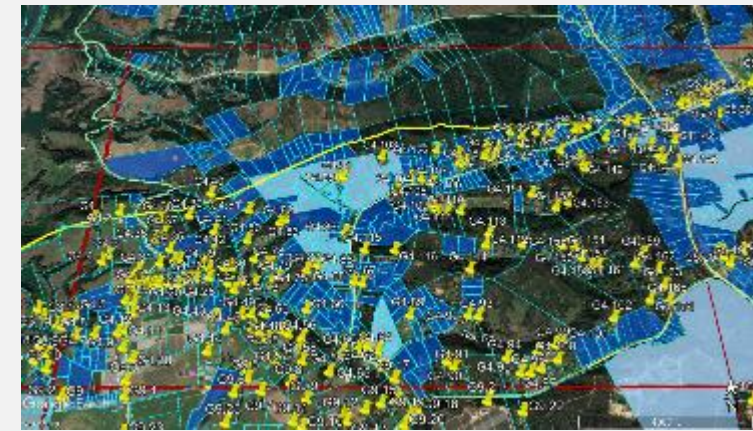
- |                                                                                                                                  |                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  SBASG Wells Address Only                   |  Grid System                |
|  SBASG Monitored Wells                      |  Salinas GW Subbasin        |
|  CCOG Wells                                 |  Region 3 Boundary          |
|  Gamma Ag Wells                             |  Public Water Service Areas |
|  Monterey Water System Non-Compliance Wells |  Water Systems: LPA & SWS   |



# SELECTION OF POTENTIAL CANDIDATE RESIDENCES/ WELLS

Addresses are identified  
using APNs associated  
with marked residences

Source: county parcel  
ownership list and  
associated address list  
obtained from the County  
of Monterey Assessor's  
Office, March 2018



Name	APN	GIS_ACRES	AssesseeNa	AddressStr	AddressCit	AddressS	AddressZip
G4.59	131151008000	13.17			CASTROVILLE	CA	950129769.
G4.46	131151025000	9.82			CASTROVILLE	CA	95012.
G4.96	129061015000	5.72			SALINAS	CA	93907.
G4.91	129071011000	6.98			SALINAS	CA	93907.
G4.65	131131010000	5.03			CASTROVILLE	CA	95012.
G4.10	131091002000	31.86			CASTROVILLE	CA	950129718.
G4.58	131151009000	5.81			CASTROVILLE	CA	950129769.
G4.47	131151020000	5.13			CAMPBELL	CA	95008.
G4.90	129071051000	28.18			SALINAS	CA	93907.
G4.94	129071005000	4.42			SOQUEL	CA	95073.
G4.44	131091004000	10.29			CASTROVILLE	CA	950129720.
G4.9	131073001000	6.04			CASTROVILLE	CA	95012.
G4.64	129097035000	0.86			PRUNEDALE	CA	93907.
G4.57	131151010000	4.89			CASTROVILLE	CA	950129721.
G4.61	131131011000	4.84			CASTROVILLE	CA	95012.
G4.99	129061006000	3.29			SALINAS	CA	93907.
G4.62	129097009000	0.88			SALINAS	CA	93907.
G4.56	131151011000	6.08			SAN RAFAEL	CA	94901.
G4.7	131072012000	5.04			CASTROVILLE	CA	95012.
G4.101	129061042000	7.57			WATSONVILLE	CA	950771420.
G4.55	131151012000	6.11			CASTROVILLE	CA	95012.
G4.52	131151018000	4.64			CASTROVILLE	CA	950129721.
G4.52	131151018000	4.64			CASTROVILLE	CA	950129721.
G4.45	131051021000	0.97			TROY	MI	48098.
G4.54	131151013000	6.26			CASTROVILLE	CA	950129721.
G4.51	131151018000	4.64			CASTROVILLE	CA	950129721.



# IMPLEMENTATION STEPS AFTER RESIDENCE/ WELL IDENTIFIED

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1. Mail application packet to identified residences from GIS mapping
2. After application is received, sample wells to confirm nitrate levels are above drinking water standard
  - Notify residence of results
3. Provide bottled water to qualified residences
  - Contact info provided to Culligan to set up delivery



# THANK YOU



Coalition for Urban Rural Environmental Stewardship