

WATER REPLACEMENT PLAN: Phase 2

Salinas Basin Agricultural Stewardship Group
and
Coalition for Urban Rural Environmental Stewardship (CURES)

Central Coast Regional Water Quality Control Board

San Luis Obispo, May 10-11, 2018

Member Statistics

- ▶ 116 Members
- ▶ Approximately 182,000 Member acres represented out of $\pm 186,000$ Total Basin Acres.
- ▶ 146 AW numbers represented by members
- ▶ Approximately 915 Individual Ranches

Interim Replacement Water Settlement Agreement

▶ Parties

- ▶ Salinas Basin Agriculture Stewardship Group, LLC
- ▶ Chief Deputy Director of CA State Water Resources Control Board's Office of Enforcement
- ▶ Executive Officer for The CCRWQCB

▶ Term

- ▶ Phase 1:
 - ▶ March 29, 2017- March 29, 2018
- ▶ Phase 2:
 - ▶ March 29, 2018-March 29, 2019

Status Of Agreement Goals: Phase 1

SBASG is obligated to use all commercially reasonable steps to provide replacement water to a minimum of 35 systems

▶ Systems currently receiving replacement water	25
▶ Systems ILRP/SBASG Member	9
▶ Systems Declining Water	10
TOTAL	44

- ▶ 58 Wells originally provided
- ▶ 42 eligible for program (excludes GAMA recipients)
- ▶ 24,057 Gallons to 547 Individuals provided as of May 1, 2018
- ▶ No complaints regarding water services



Water Replacement Plan

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SBASG Phase Two

Performance Goals for CURES

- 1) Create GIS mapping that enables SBASG to:
 - ID impacted community water systems (2-15 conn.) in Salinas GW Basin;
 - ID domestic wells in Basin;
- 2) Estimate number of potential recipients
- 3) Develop budget to deliver bottled water/alternative methods to qualified recipients (water above nitrate MCL)
- 4) Establish current and future funding sources to cover budget costs (SBASG, future grants)
- 5) Initiate water delivery to qualified recipients (current and on-going);
- 6) Develop outreach program with local/state agencies, non-profit groups (i.e. Clinica de Salud) to maximize number of potential applicants/recipients

Overall plan in process of being finalized by Settlement Agreement parties. Initial GIS mapping currently underway

An aerial photograph of a rural landscape, showing a mix of green fields, brown soil, and some buildings. A semi-transparent map overlay is visible in the center-left, showing a grid-like pattern. The right side of the image features a green geometric design with overlapping shapes.

PHASE 2: GIS MAPPING OF INDIVIDUAL RESIDENCES/DOMESTIC WELLS IN SALINAS GROUNDWATER BASIN

Water Replacement Plan

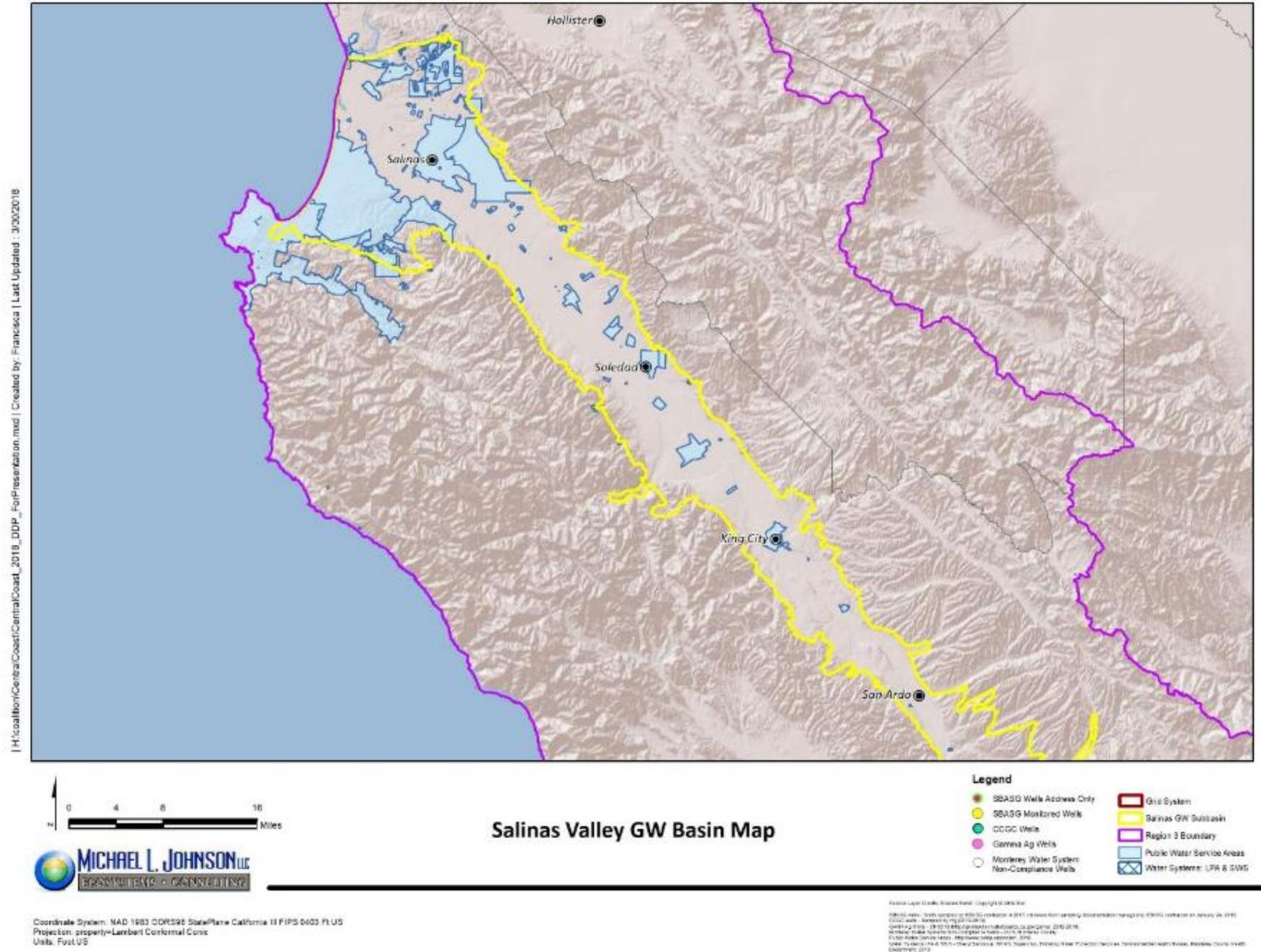
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GIS Mapping Sources

- 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 1: CURES
- County Parcels: County of Monterey Assessor's Office, March 2018

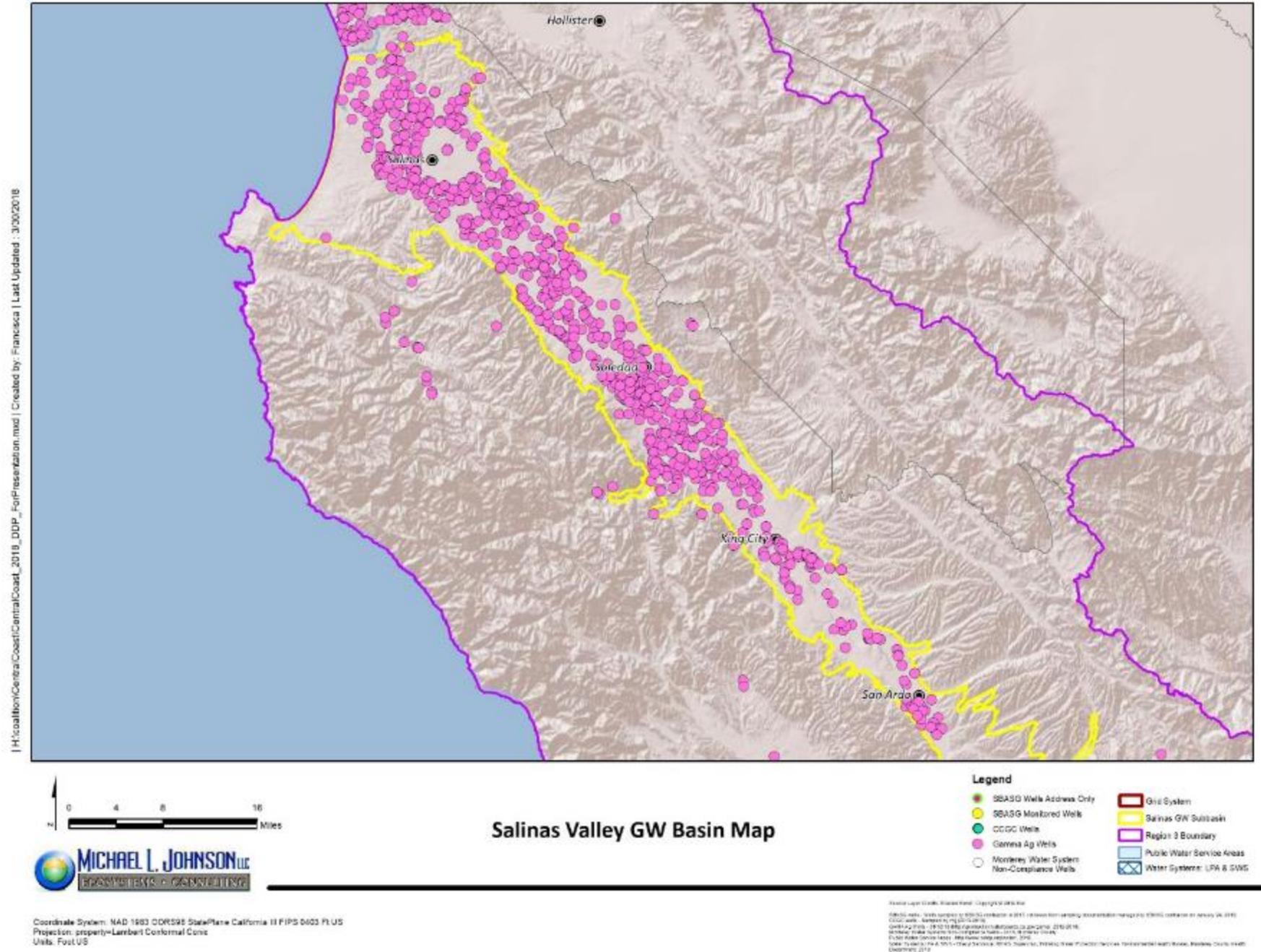
Public water systems

Source: California Environmental Health Tracking Program,
<http://www.cehtp.org/water/>
Jan 2018



Well data from irrigated lands regulatory program (geotracker/GAMA)

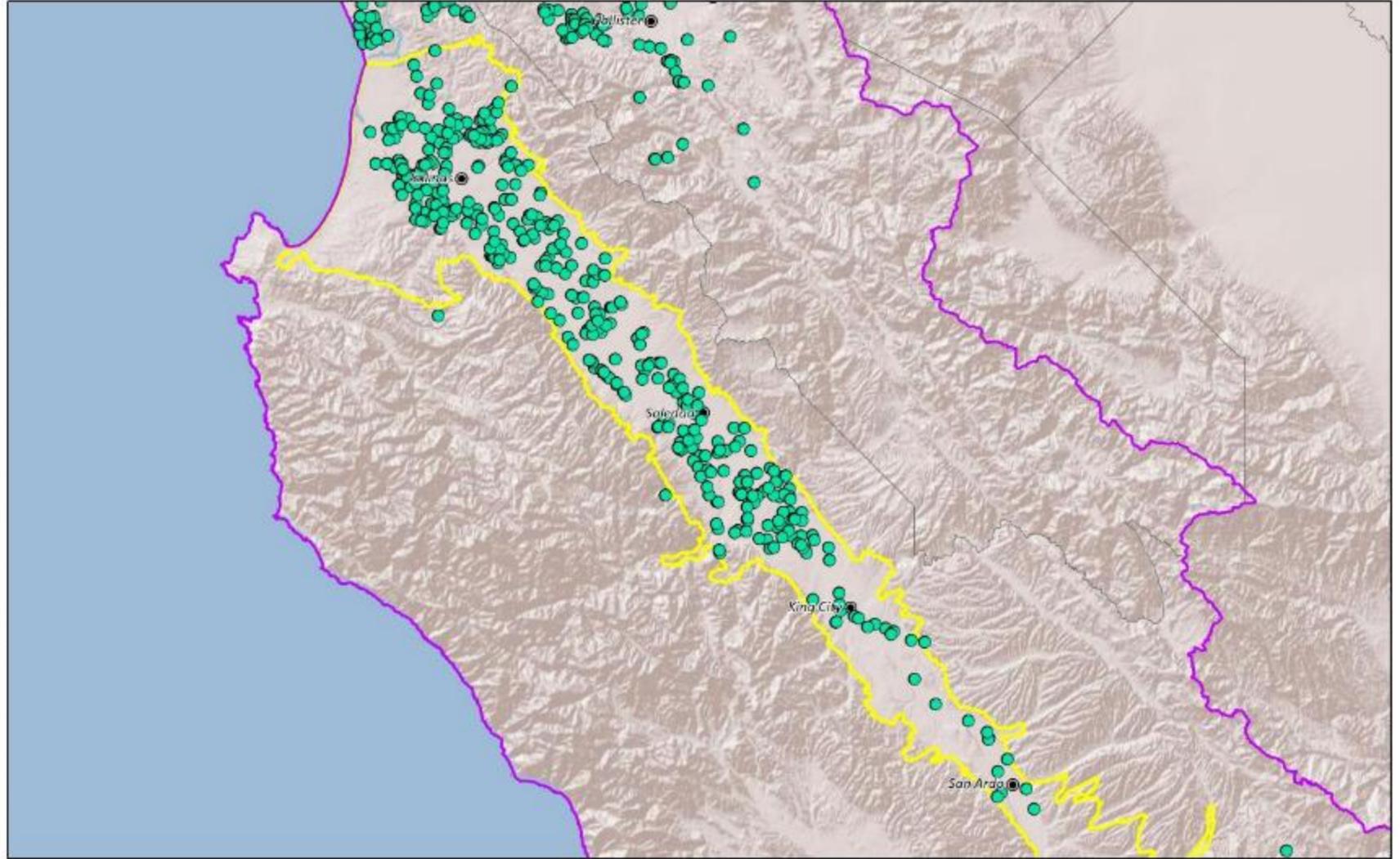
Source: Geotracker/GAMA, January 2018 download (<http://geotracker.waterboards.ca.gov/gama/>)



Well data from CCGC sampling

Wells sampled by MLJ 2013 - Jan 2018

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Salinas Valley GW Basin Map

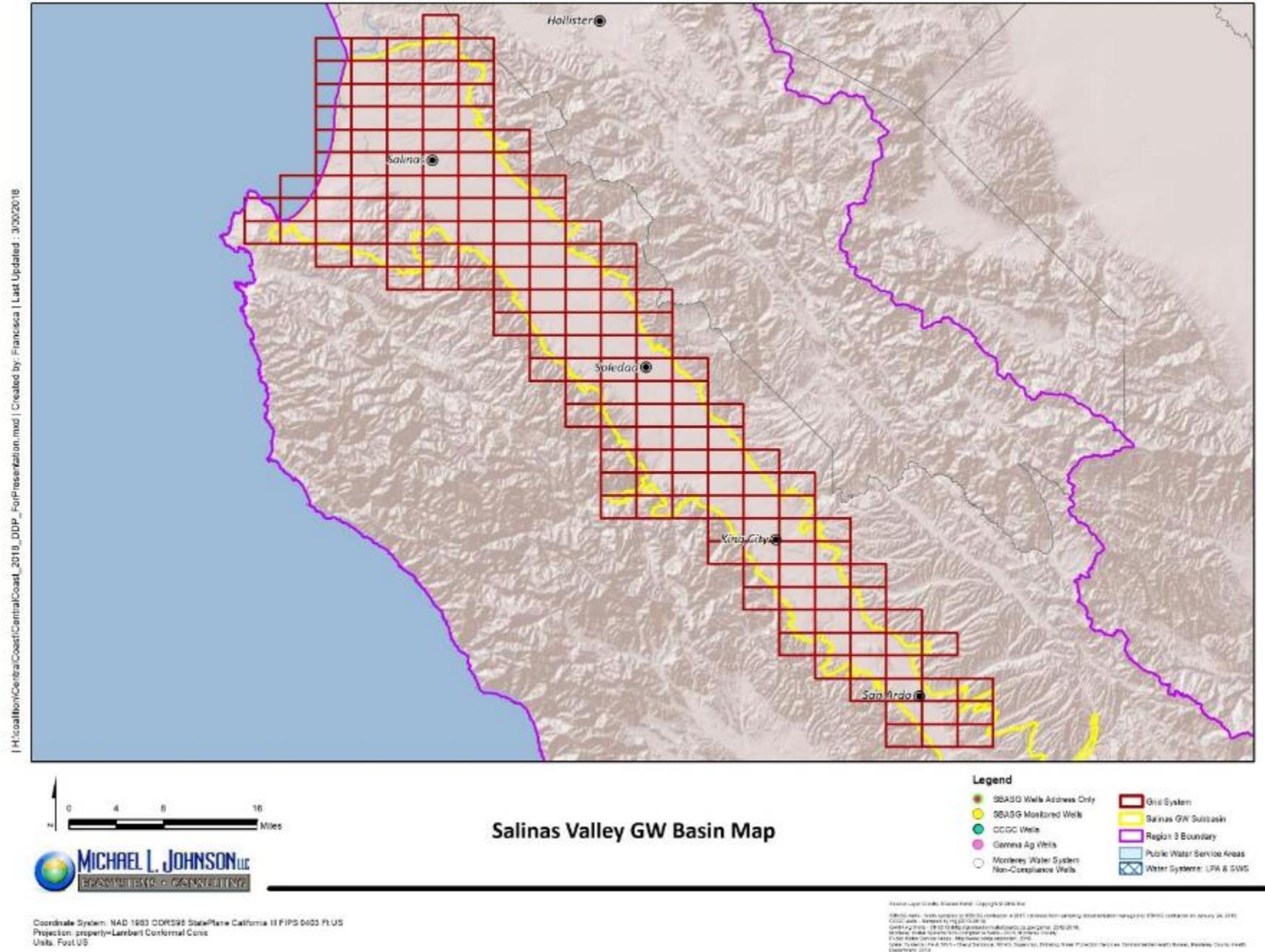
- Legend**
- SBASG Wells Address Only
 - SBASG Monitored Wells
 - CCGC Wells
 - Gamma Ag Wells
 - Monterey Water System Non-Compliance Wells
 - Grid System
 - Salinas GW Subbasin
 - Region 3 Boundary
 - Public Water Service Areas
 - Water Systems: LPA & SWS

Coordinate System: NAD 1983 CORRS95 StatePlane California II FIPS 5403 PLUS
 Projection: property=Lambert Conformal Conic
 Units: Foot US

Source Layer: Google, Esri, DeLorme, Swire, etc.
 SBASG wells: Well number is SBASG location. A 2011 release from sampling association mapping SBASG location as of Jan 24, 2018.
 CCGC wells: Well number is CCGC location.
 Grid: 2' x 2' (10' x 10' UTM) grid system.
 Monterey Water System: Well number is Monterey Water System well number.
 Gamma Ag Wells: Well number is Gamma Ag well number.
 Public Water Service Areas: Well number is Public Water Service Area well number.
 Water Systems: LPA & SWS: Well number is Water System well number.
 Date: 3/00/2018

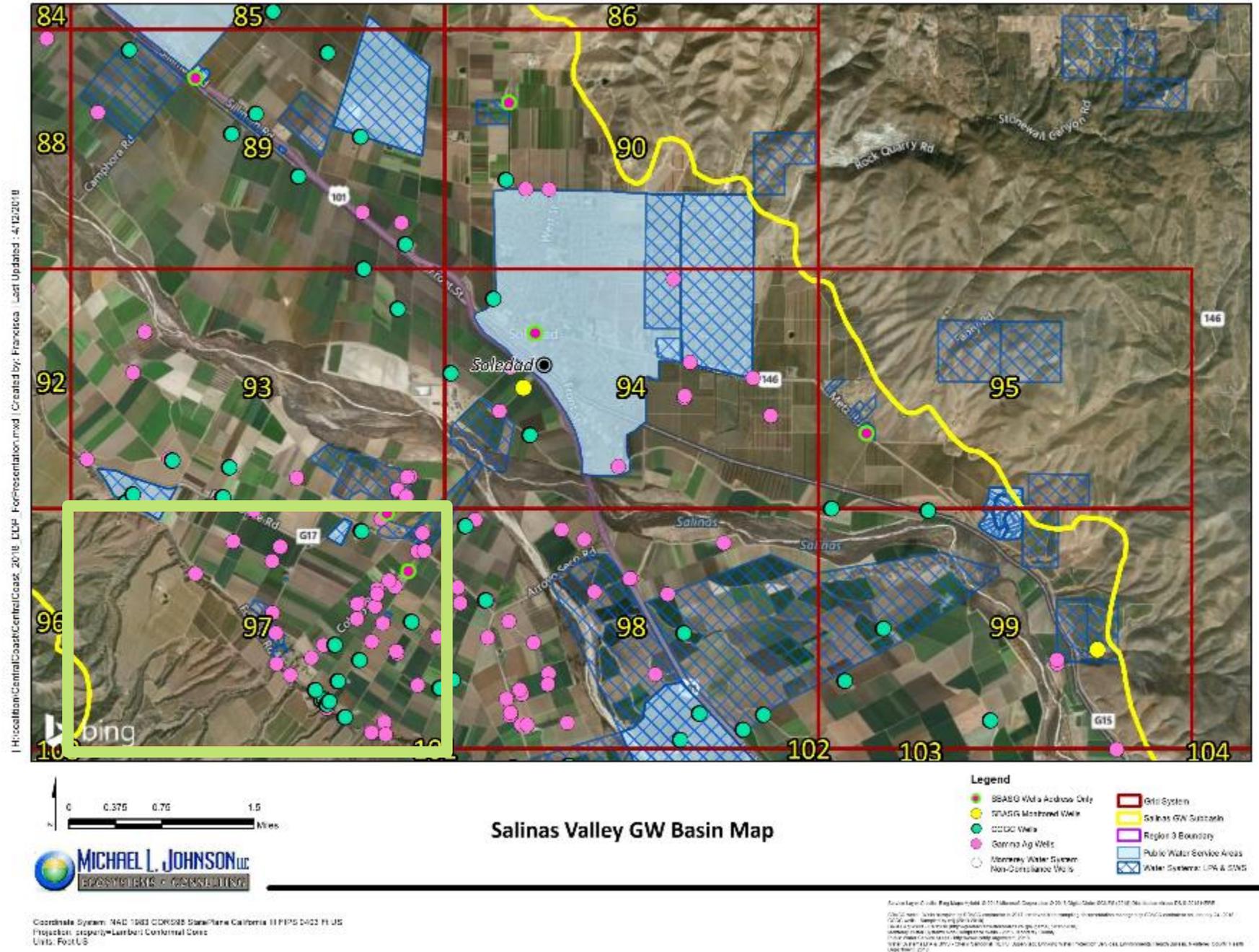
Grid layer

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



Example Multiple grids, 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



Project: Salinas Valley Groundwater Basin
 Date: 4/12/2018
 Author: Francisco
 Title: Salinas Valley Groundwater Basin Map

Example:
single grid with all
layers



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Salinas Valley GW Basin Map

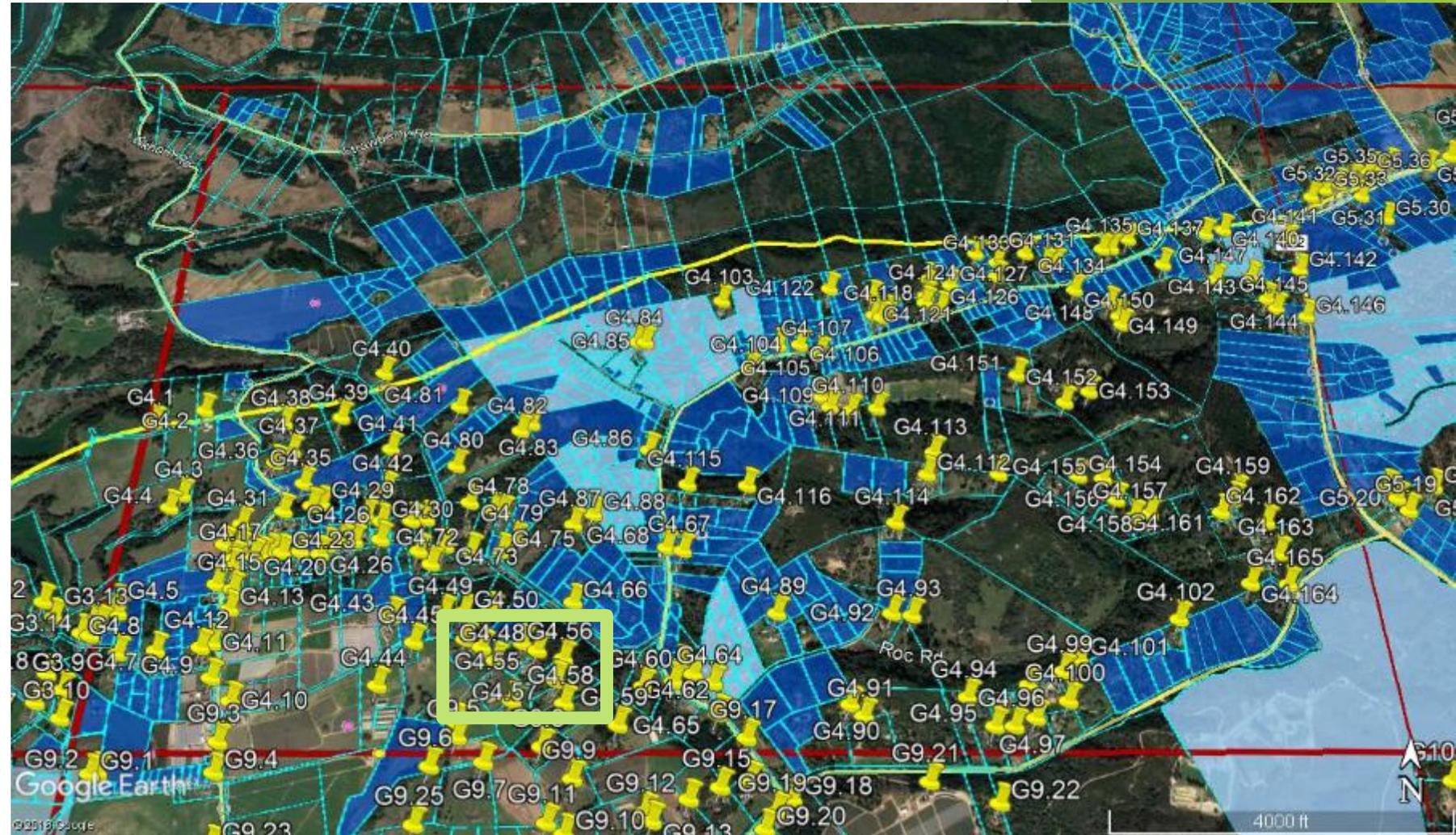
- Legend**
- SBASO Well & Andros Only
 - Grid System
 - SWSAG Monitored Well
 - Salinas GW Subbasin
 - SWSAG Well
 - Region 3 Boundary
 - Gaining Ag Wells
 - Public Water Service Areas
 - Nonrenewable Water System
 - Water Systems: LPA & SWS

Coordinate System: NAD 1983 CONUS83 StatePlane California II FIPS 5403 Feet US
 Projection: property=Lambert Conformal Conic
 Units: FootUS

Project: Salinas Valley Groundwater Basin
 Date: 4/12/2018
 Author: Francisco
 Title: Salinas Valley Groundwater Basin Map
 Description: Salinas Valley Groundwater Basin Map showing wells, subbasins, and service areas.

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





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	13115	13.17			CASTROVILLE	CA	950129769.0
G4.46	13115	9.82			CASTROVILLE	CA	95012.0
G4.96	12906	5.72			SALINAS	CA	93907.0
G4.91	12907	6.98			SALINAS	CA	93907.0
G4.65	13113	5.03			CASTROVILLE	CA	95012.0
G4.10	13109	31.86			CASTROVILLE	CA	950129718.0
G4.58	13115	5.81			CASTROVILLE	CA	950129769.0
G4.47	13115	5.13			CAMPBELL	CA	95008.0
G4.90	12907	28.18			SALINAS	CA	93907.0
G4.94	12907	4.42			SOQUEL	CA	95073.0
G4.44	13109	10.29			CASTROVILLE	CA	950129720.0
G4.9	13107	6.04			CASTROVILLE	CA	95012.0
G4.64	12909	0.86			PRUNEDALE	CA	93907.0
G4.57	13115	4.89			CASTROVILLE	CA	950129721.0
G4.61	13113	4.84			CASTROVILLE	CA	95012.0
G4.99	12906	3.29			SALINAS	CA	93907.0
G4.62	12909	0.88			SALINAS	CA	93907.0
G4.56	13115	6.08			SAN RAFAEL	CA	94901.0
G4.7	13107	5.04			CASTROVILLE	CA	95012.0
G4.101	12906	7.57			WATSONVILLE	CA	950771420.0
G4.55	13115	6.11			CASTROVILLE	CA	95012.0
G4.52	13115	4.64			CASTROVILLE	CA	950129721.0
G4.52	13115	4.64			CASTROVILLE	CA	950129721.0
G4.45	13105	0.97			TROY	MI	48098.0
G4.54	13115	6.26			CASTROVILLE	CA	950129721.0
G4.51	13115	4.64			CASTROVILLE	CA	950129721.0

IMPLEMENTATION STEPS AFTER RESIDENCE/WELL IDENTIFIED

1. Mail application for replacement water with cover letter on program to identified residences from GIS mapping
 1. Follow up calls to potential candidates
 2. Follow up visits to potential candidates
2. After application is received, sample wells to confirm nitrate levels are above drinking water standard
 1. Notify residence of results
3. Provide bottled water to qualified residences
 1. Contact info provided to Culligan to set up delivery
4. Continue follow up with candidates identified through State Water Board Hot Line calls or other State Water Board/Regional Water Board outreach



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SALINAS BASIN AGRICULTURAL STEWARDSHIP GROUP
AND

COALITION FOR URBAN RURAL ENVIRONMENTAL STEWARDSHIP (CURES)

Thank You

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