An Overview of the Agency's Groundwater Management System, FCGMAOnline.org, its Functions and Data Criteria



FCGMA Operations Committee August 28, 2024

Agenda

- Overview of FCGMAOnline.org
- Data Criteria
- Functions
- Challenges
- Recommendations
- Questions and Discussion

FCGMAOnline Brief History

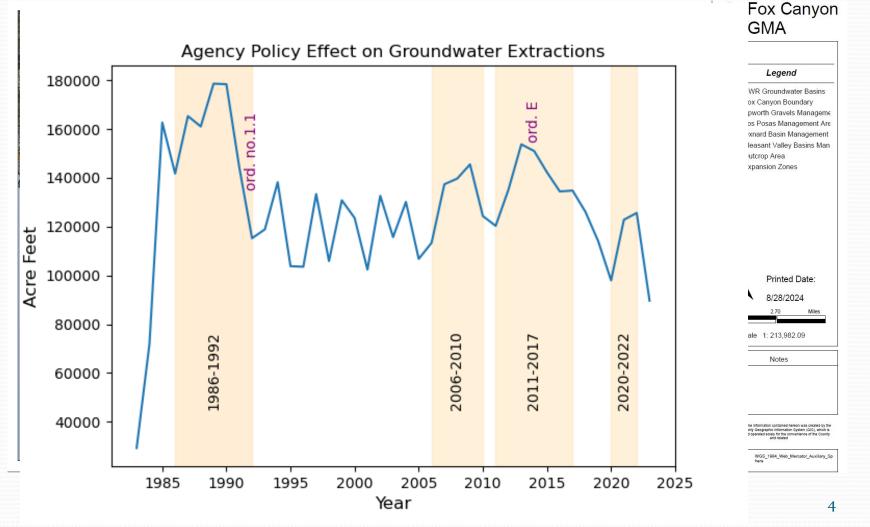
- Web based groundwater data management system.
- Purpose for development (2009):
 - improve functionality and quantification of estimates, and
 - identify ordinance compliance issues in a timely manner

- Went live 2010-1
- Current(2024)
 - 400+ CombCodes (Operator Accounts) (OPV 263, LPV 150, ASRV 9)
 - 964 Wells Reporting (FCGMA Owner Accounts) (Active 715, Inactive 249)

FCGMA Brief History

- AB 2995 (1982)
- Fox Canyon Aquifer
- Multiple basins
- Hydrological connectivity





FCGMA Web Application Architecture

GARBAGE

IN

GIGO is used in IT

and mathematics

Fir

Client



- Web Application Client
- HTML, CSS, Javascript
- Data Validation

What is GIGO?

The quality of information coming out cannot be better than the quality of information that went in.



Garbage In, Garbage Out

Data Stored in FCGMAOnline.org

Wells (964)

- Well Attributes
- Owner Profile
- Flowmeter Specs
- FM Visual Aids
- Calibrations

CombCodes (423)

- Operator Profile
- Extraction Data
- Meter Photos
- Allocations / Carryover
- Billing

Other

- GIS Mapping Tool
- APNs
- Irrigated Acres and Crop Type
- LPV Watermaster
 Functionality
- Other

Function – User Interface

Extraction Information

Enter *Current Meter Reading* for each well, then select *Calculate* to compute the *Difference, AF Extraction* for each well and *Total AF Extraction* for all wells. Select the *Meter Help* button for information on how to read your meter:



If there was a flowmeter malfunction, you may enter the value directly under the **AF Extraction** heading and enter 0 (zero) for the **Current Meter Reading**. Please also complete and submit a <u>Flowmeter Update Form</u> to: <u>FCGMA.Flowmeter@ventura.org</u>.

Select Meter Info S/N link to upload the corresponding flowmeter photograph for each flowmeter reading for the current reporting period.

State Well No.	Meter Info	Current Meter Reading (03/31/2024)	Previous Meter Reading (09/30/2023)	Difference	X Mult.	/ Div.	AF Extraction
R04 Destroyed	S/N: Mfg: Exp:	0	0	0			0.000
Active	S/N: 07210851 Mfg: Seametrics Exp: 07/20/2024	180327	158414	21,913	.01	1	219.130
Active	S/N: <u>16-04242-12</u> Mfg: McCrometer Exp: 02/26/2021	0	0	0	1,000	325,851	0.000
R06 Active	S/N: <u>16-10118-08</u> Mfg: McCrometer Exp: 02/26/2020	0	0	0	100	325,851	0.000
R06 Active	S/N: <u>16-10118-08</u> Mfg: McCrometer Exp: 04/08/2023	0	3298770	0	100	325,851	0.000
Active	S/N: <u>16-10118-08</u> Mfg: McCrometer Exp: 01/13/2026	358107	351332	6,775	100	325,851	2.079
A01 Destroyed	S/N: Mfg: Exp:	0	0	0			0.000
D01 5 Destroyed	S/N: Mfg: Exp:	0	0	0			0.000

Well Number:	D01
Meter SN:	14-505121690
Meter Manufacturer:	Netafim

Meter Reading Photo Uploads

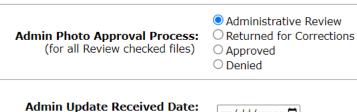
Photos shall include: CombCode, state well number, meter serial number, and date of photo. Photo must contain legible image of meter totalizer reading, totalizer units, and multiplier. Some meter models (digital meters with multiple displays) may require more than one photo per meter to satisfy the photo requirement.

Select the **Choose File** button to select a file for upload. Acceptable photo file formats are pdf, jpg or jpeg, png, gif, and tiff. Maximum file size is 3.0 MB.

Choose File No file chosen



	Files Uploaded	Year Code	Date Received	Date Uploaded	Uploaded By	Status	Delete
	2024-1 D01 14- 505121690 652.pdf	2024-1	05/14/2024	05/15/2024	Weber, Elka	Approved	8



(for all selected/checked files)

Update Received Date

Update Review Status

Function – User / Admin Flowmeter Resource

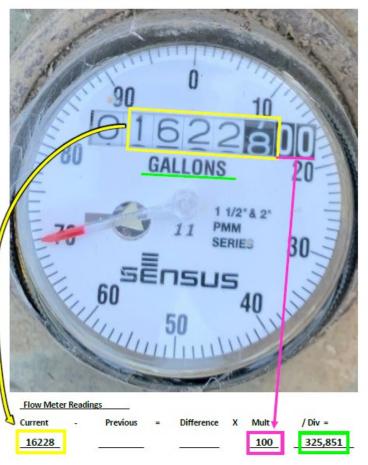
FCGMA is <u>NOT</u> a utility company.

Flowmeter Visual Aid

25 manufacturers

99 unique meter models

Sensus (Gallons x 100)





The Tigermag cycles through two different operating screens. The totalizer is indicated by "COUNT =". The multiplier is shown on a separate screen cycle in the UNITS/COUNT area of the screen (in this example: 100 GAL/COUNT).

Set the totalizer multiplier so that it is consistent with the entry on the meter registration form.

Function – Admin Interface

State Wel No.	IM	leter Info	R	ent Meter eading '31/2024)	R	ous Meter eading 30/2023)	Differe		X ult.	/ Div.	Ext	AF tractio
PO:	Mfg:	04222862 Seametrics 04/26/2025		(10873]	0	.01	1		0.00
P0. Active	Mfg:	0520160024 Seametrics 09/02/2024	45	(0]	0	.01	1		0.00
(Main) Active	S/N: Mfg:	<u>12-06026-08</u> McCrometer 08/21/2021		(1446988]	0.	001	1		0.00
5R0 Active	Mfg:	<u>147019149</u> Netafim 08/04/2024		(192675]	0	.01	1		0.00
								Total	AF E	xtra		: 0.00 Calcula
Statement: SA									Du			4/2003
Manual Billing S Statement: SA CombCode:	ES-LOOL -	Sustain Fee:	Surcharges:	Interest:	Penalty:	Civil Penalty:	Gemes:	Other	, т			4/2003 Due: 0 Balance Due:
Statement: SA	ES-L.	Sustain Fee: \$0.00	Surcharges: \$0.00	Interest: \$0.00	Penalty: \$0.00		Gemes: \$0.00	0thei \$0.0	а Т С	Day otal Due:	/s Over	Due: 0 Balance
Statement: SA CombCode:	ES-LOCC					Penalty:			т с 0 \$57	Day otal Due:	/s Over Total Paid:	Due: 0 Balance Due:
Statement: SA CombCode: Charges:	ES-COOL-1 Extraction Charge: \$57.00	\$0.00	\$0.00	\$0.00	\$0.00	Penalty: \$0.00	\$0.00	\$0.0	т с 0 \$57	Day otal Due:	/s Over Total Paid:	Due: 0 Balance Due:

Calculate Payment

This statement has been marked uncollectible Interest and Penalties

SUM:

Well Information			
Back			Start over
Current Owner: *	Hiji Investment Co. LLC-HijiInCo		Current Owner Info
New Owner Change Date:			
Previous Owners:	None		
HA:	210.240		
State Well Number:*	01N21W01B01 V	Well Status:*	Active 🗸
Well Name:	Morningstar - Old Fox Canyon	Well Date:	
State Record No.	560763	Registration Date:	
County Permit:	N/A	Exempt Inactive:	05/04/2015
GMA Permit:	N/A	Exempt Domestic:	
Agency:	Fox Canyon Groundwater Management Agency 🗸	FCGMA Basin:*	Pleasant Valley 🗸
		DWR Basin:	Pleasant Valley 🗸
AQ Level:	Upper 🗸	Aquifer:	OXN 🗸
ETO Code:	AIR-Camarillo Airport 🗸	Zone:	2 🗸
Usage:*	Primary	NLPCode:	
	AG O	Single Family Residence:	
		Qualify for Dom. Exemption:	
Address/Location:	Lewis Rd & Pleasant Valley Rd., Camarillo		
People Served:	5		GIS SAYS
APN:	217-0-010-100	APN:	Service Not available.
Parcel Acreage:		Parcel Acreage:	Service Not available.
X Coord:	1688409.23	X Coord:	1689174.65
Y Coord:	258188.94	Y Coord:	258195.16

Function – Admin Interface

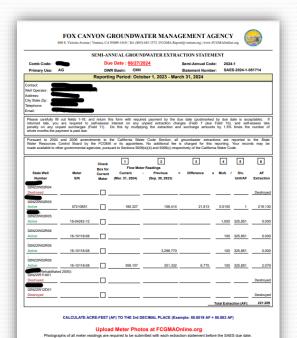
User Profile	
Last update by Kathy	Jones on 2/23/2022 9:54:53 AM
Required fields*	
First Name:*	
Last Name:*	
Middle Name:	
Business Name:	
Contact Name:	
Mailing Address:	
City:	
State:	CA 🗸
Zip Code:	93031
Phone:	
Fax:	
Mobile:	
Email Address:	
Username:*	
Password:	
Retype Password:	
Active:	

	CombCode	Basin	Active
		OXP	
	1	OXP	
Associated		OXP	Image: A start of the start
CombCodes:			
		OXP	

<< Hide Meter Info	Select Meter:	23-06594 - AF A	cre Feet - 3273 V			
Meter Information						
Currently in use: ☑ Is this a Bypass meter? Is the meter new from n Meter Serial No (S/N);		Aeter Information		Riedel on 1	1/15/2023	_
Installed Date: Removed Date:	09/11/2023	10:3273	Start	Reading: Reading:	0	
Meter Manufacturer: Meter Style: Manufacturer Date: Discharge Pipe Size: Motor/Engine: Meter Size:	McCrometer 09/01/2023 10 8		Electric Meter No: Meter Type: Meter Use: Units of Measure: Multiplier Units: Conversion Units: Years for Calibration Expiration: Expiration Date:	Water Ag V AF Acre F .001 V 1 3 09/01/20	•	•
	Shed Open Beh	ind Locked Gate	e 🗆 Underground Va	ult		
Uploads						
Please include the follow 1. At least one readable 2. At least one readable 3. At least one meter in approximately 10' dista in the same photo fram	e photo of dial (meter) f photo of dial cover. stallation photograph fr nce showing meter and	rom Choose	01N21W01B05	size 3.0 M	1B): Uplo	ad

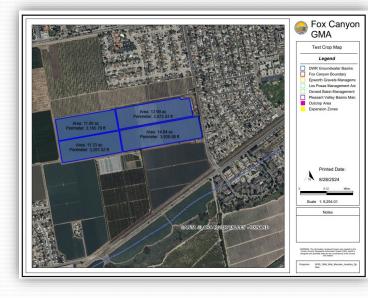
Function – Data Exports

Extraction Statements



s applies to all wells requiring a meter in accordance with Agency Ordinance Code Photo(s) shall include meter face with totalizer reading, multiplier and units.

GIS Mapping Tool Exhibit



- Groundwater Extraction Reports
- Well and Meter Information
- Meter Calibration Expirations
- Billing Transactions
- Well Owner / Operator Contacts
- Allocations / Transfers
- Irrigated Acres and Crop Data

Data Input Process

Agency Staff entry of user submitted forms vs. User online submittal

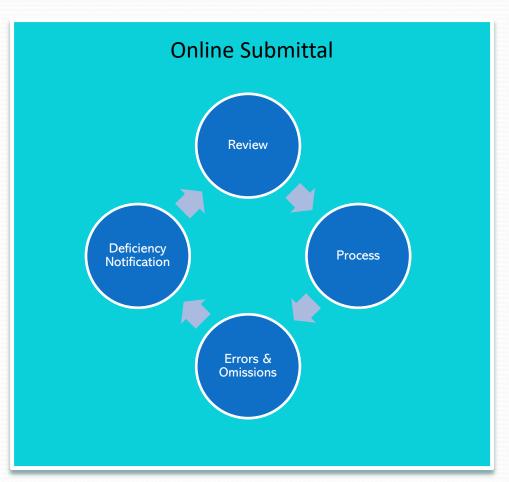


Challenges

Errors & omissions increase steps, decrease efficiency, and productivity

VS

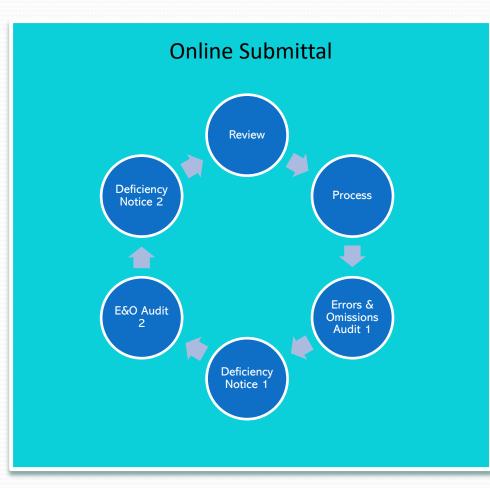




Challenges continued...

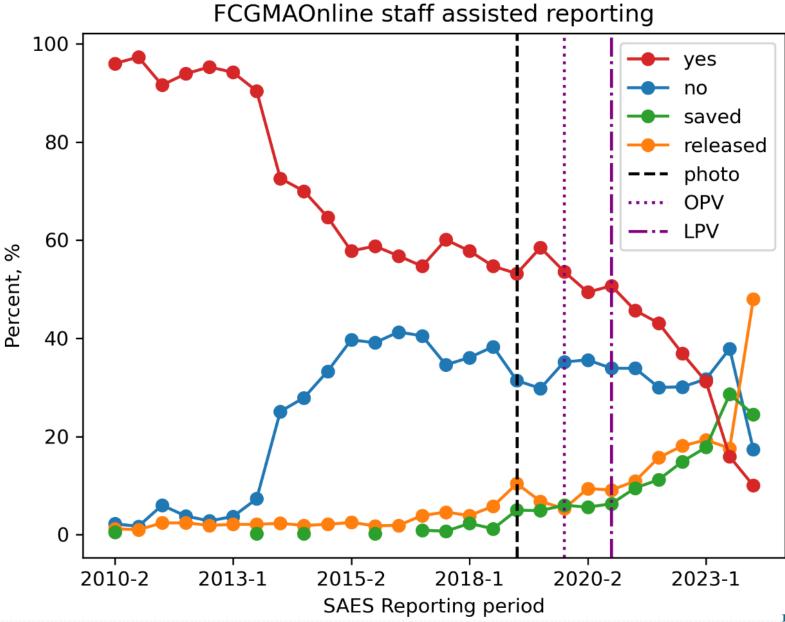
Rework increase steps, slows efficiency, and productivity





Challenges

 Safeguards may have unintended consequences on SAES reporting and operations



Operational Impacts Timeline

Year	Major Operational Events
2014	Emergency Ordinance E
2016	 Three New Agency Staff [Kim Loeb (Jul), Keely Royas (Sep), Kathy Jones (Dec)]
2017	 Water Market Implementation Phase I NRCS AMI Grant Implementation
2018	 AMI Ordinance AMI Implementation for AG by 12/31/2018
2019	 Meter Photo Requirement Implementation AMI Implementation for M&I by 10/1/2019 Water Market Phase 2 LPV Litigation, Discovery and Depositions
2020	COVID & Staff Reassignment as Emergency Response Contact Tracers

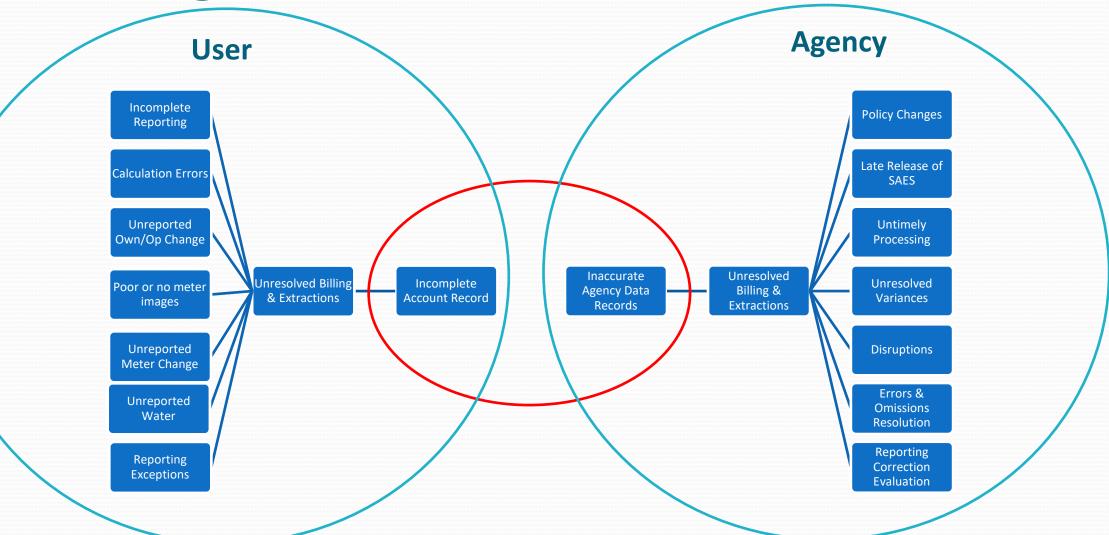
Operational Impacts Timeline

Year	Major Operational Events
2020	 AMI Implementation for DOM by 10/1/2020 AMI Exemption for DOM by 10/1/2020 Water Market Phase 2 Extension OPV Allocation Ordinance Implementation OPV Transition to Water Year OPV Variance Process, Workshop & Review Committee
2021	 LPV Allocation Ordinance Implementation LPV Transition to Water Year OPV Carryover Accrual Litigation Discovery
2022	 Partial Refund of 2021 Reserve Fees Paid Hydrogeologist Retirement (Apr) Compliance Specialist LOA & Resignation (Apr)

Operational Impacts Timeline

Year	Major Operational Events
2023	 LPV Adjudication Judgment Ruling LPV Watermaster Implementation Staffing Model Evaluation
2024	 Groundwater Manager (Jan) & Executive Officer Retirement (Mar) Clerk of the Board resignation (Feb) LPV Watermaster Implementation LPV Watermaster Basin Assessment LPV Watermaster Extraction and Usage Reporting Fiscal Budget Renovations

Challenges continued...



Continuous Improvement Data / Operations

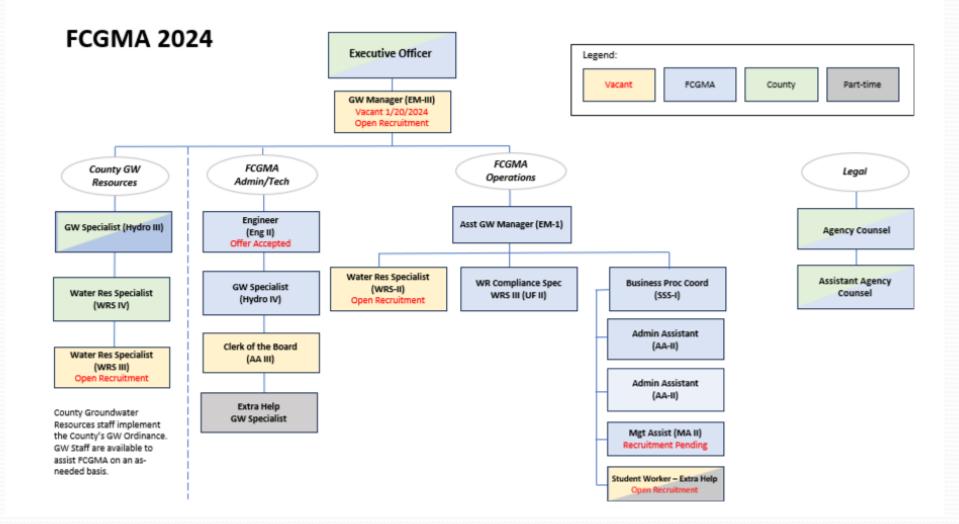
- Data management system
 - Meter Photo Upload
 - Meter Visual Aid Expansion
 - Payment Interface Enhancements

- Policy
 - Flowmeter Program
 - AMI Ordinance
 - Meter Photo Requirement
 - Hire Additional Staff

Staffing Resources

FCGMA 2010 Executive Officer Legend: FCGMA Part-time Vacant County GW Manager (EM-III) FCGMA FCGMA Legal Operations Admin/Tech **GW Specialist Business Proc Coord** Agency Counsel (Hydro IV) AA II Clerk of the Board MA II

Staffing Resources



Recommendations for Consideration

- Prioritize resolution of backlog
- Incentivize online reporting
- Finalize variances resulting from OPV / LPV Allocation Ordinance
- Administrative processing fee for specific functions in OPV / ASRV
- New owner / operator outreach and workshops
- Implement well owner / operator termination process
- Collaborate with IT Staff during policy changes
- Allocation System for ASRV (proposed test pilot group for AMI SAES reporting)
- Replace FCGMAOnline.org?

Questions and Discussion