

# RWEPAC Meeting

---

## CII CLASSIFICATION, PROCESS AND LESSONS LEARNED

NOVEMBER 12, 2024



# CII PERFORMANCE MEASURES

Classification

Large Landscapes

Conversions

Best Management  
Practices

Reporting and Budgets

Other

**BEST PRACTICE**

# CII CLASSIFICATION

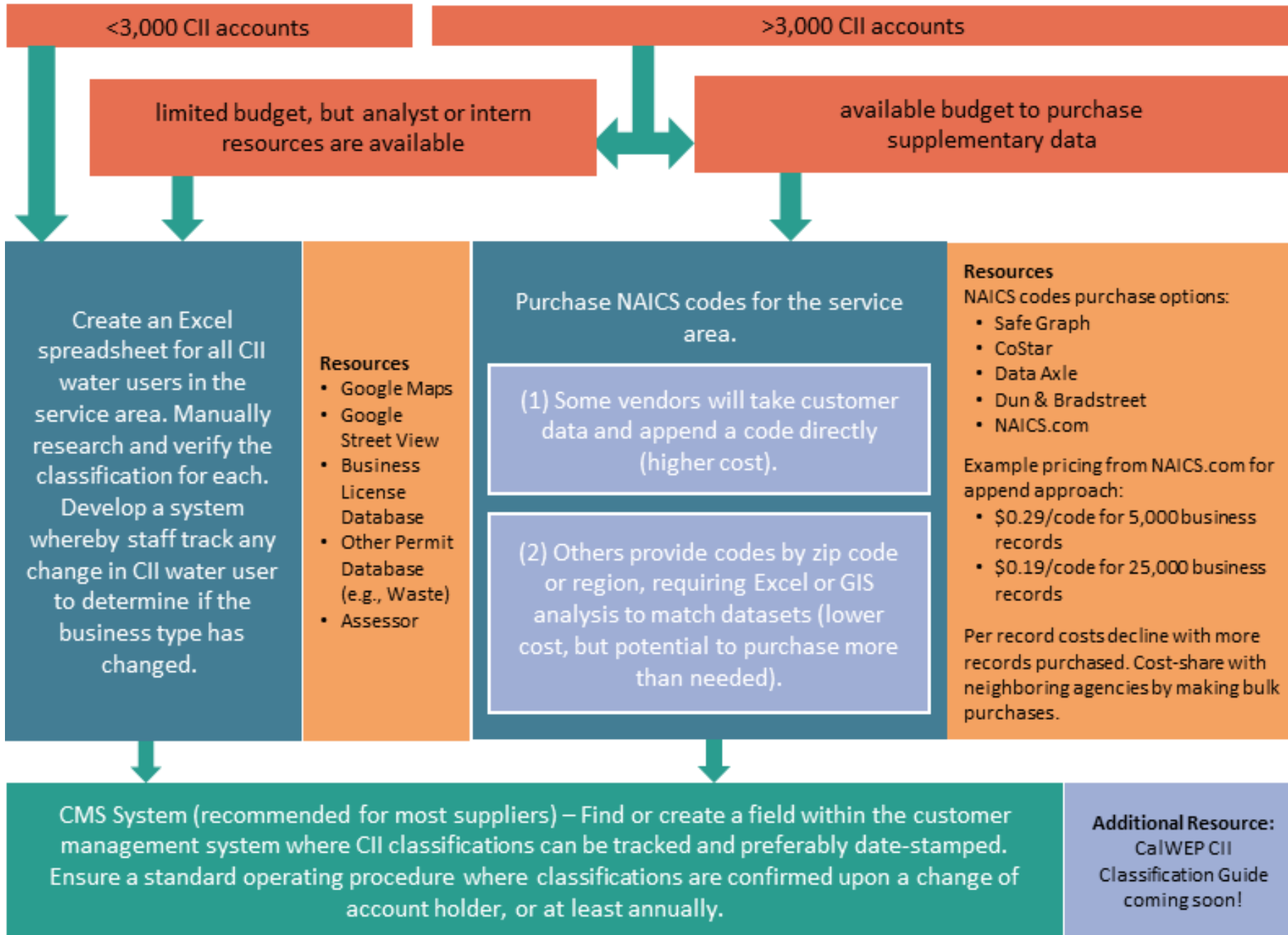
**Suppliers shall classify all CII water users by June 30, 2027**

- **EnergyStar Portfolio Manager (ESPM) 18 Categories (1-18 below)**
- **+ 4 (Below 19-22)**

**By June 30, 2028, and annually thereafter, suppliers shall maintain at least a 95 percent classification rate of all CII water users.**

- |                                  |                        |                       |
|----------------------------------|------------------------|-----------------------|
| 1. Banking/financial services    | 9. Office              | 17. Warehouse/storage |
| 2. Education                     | 10. Parking            | 18. Other             |
| 3. Entertainment/public assembly | 11. Public services    | 19. CII laundries     |
| 4. Food sales and service        | 12. Religious worship  | 20. Large landscapes  |
| 5. Healthcare                    | 13. Retail             | 21. Water recreation  |
| 6. Lodging/residential           | 14. Technology/science | 22. Car wash          |
| 7. Manufacturing/industrial      | 15. Services           |                       |
| 8. Mixed use                     | 16. Utility            |                       |

The CalWEP CII Guidebook recommends that for agencies with:



## Placer County Water Agency



- **# CII Accounts:** 2,760
- **Approach:** Manual categorization (State categories) recorded in Excel (referenced existing SIC codes, GIS, Google Maps, web searches, site visits)
- **Lead:** Internal
- **Effort:** Approximately 5 minutes/account

## City of Santa Barbara

- **# CII Accounts:** 2,750
- **Approach:** Manual categorization (State categories) recorded in Excel (referenced business license database with NAICS codes, waste permit holders, solid waste database, Google Maps, GIS parcel data)
- **Lead:** Internal, using interns
- **Effort:** Approximately 20 minutes/account (6-month effort)





## City of Santa Clara

- **# CII Accounts:** 3,400
- **Approach:** NAICS codes initially populated 20 years ago, then manually updated by staff research and/or based on customer input upon account transition
- **Lead:** Internal
- **Effort:** Not quantified; performed on ongoing basis

## City of Hayward

- **# CII Accounts:** 3,700
- **Approach:** Internal classification (19 choices) for sewer waste strength purposes based on permit data
- **Lead:** Internal (Water Pollution Source Control staff)
- **Effort:** Approximately 1 hour/account



## Moulton Niguel Water District



- **# CII Accounts:** 1,844
- **Approach:** Use GIS to match water account parcels with NAICS code geographic points; crosswalk to State categories in Excel
- **Lead:** Internal (staff + interns) with GIS consultant support
- **Effort:** \$0.10 per NAICS place of interest; 3,500 hours between multiple staff; 5 minutes/account for classification matching portion



- When possible, work with neighboring agencies to leverage funding (hiring consultants, purchasing datasets).
- Elevate funding requests by identifying co-benefits across the organization.
- Layering multiple datasets may help identify and clarify differences in parcel, premise, mixed-use meters and more.

# CII CLASSIFICATION APPROACH

Manual classification

Internal staff (Customer Service Specialists set up and Part time staff performed the research)

Group by Customer Name first

Group by Location ID – sequence and easier for field inspections

Check water use and how customer is using the water

We included Meter number and Meter size to help field staff identify

Googled it 

Team approach- Billing staff, Collections Staff, Water Efficiency and Metering Team



# Billing system limitations?

## Set up your analysis document for your success

CII and DIMs updated 4/4/2024

CID	Customer Name	Customer Doing Business As/ Business Type	Service Rate Class Description	Classification	LID	LID Match	Location Address	Meter Number	Meter Size
1	CLAUS, SANTA	FIRST NORTHERN BANK	COMMERCIAL	Banking/ Financial Services	3723	3723	390 ELM AV AUBURN, CA 95603	001	0100
2	WELLS FARGO BANK # 199380	WELLS FARGO BANK SITE # 199380	COMMERCIAL	Banking/ Financial Services	3738	3738	338 ELM AV AUBURN, CA 95603	002	0100
3	TRICOUNTIES BANK		COMMERCIAL	Banking/ Financial Services	3875	3875	789 HIGH ST AUBURN, CA 95603	003	0075
4	PLACER COMMUNITY CREDIT UNION	PLACER COMMUNITY CREDIT UNION	COMMERCIAL	Banking/ Financial Services	4431	4431	424 GRASS VALLEY HWY AUBURN, CA 95603	005	0075
5	BUNNY, EASTER	STIFEL	COMMERCIAL	Banking/ Financial Services	4743	4743	13650 BOWMAN RD AUBURN, CA 95603	006	0062
6	US BANK		COMMERCIAL	Banking/ Financial Services	4904	4904	874 LINCOLN WY AUBURN, CA 95603	007	0150
7	KENT, CLARK	SUPERMAN FINANCIAL ADVISING	COMMERCIAL	Banking/ Financial Services	4956	4956	128 EAST ST AUBURN, CA 95603	008	0062
8	1ST FOUNDATION BANK		COMMERCIAL	Banking/ Financial Services	5138	5138	649 LINCOLN WY AUBURN, CA 95603	009	0100
9	1ST FOUNDATION BANK		COMMERCIAL	Banking/ Financial Services	5140	5140	649 LINCOLN WY AUBURN, CA 95603	010	0062

Cross referenced from prior analysis DWR Classification



# Stumpers and Choosing Classifications

Placer County and the City of Auburn Public Works

Chiropractor

HOAs



# Choosing classifications

- Fairgrounds with restaurants and preschool on property
  - recreation non-water, offices, food/beverage, education, mixed use commercial
- Fire stations
  - public service
- Meters that serve mostly irrigation but are not DIMs
- Gas stations
  - sales, mixed use commercial, vehicle wash



Rest area off I-80

public service, other



Banks

sales, mixed use  
commercial, office



PG&E

utility, office



County and City sewer  
pumping station and sewer  
lifts

utility, public service



Airport

Other, services, mixed use  
commercial

# Current Status

Classification	Count of Classification	Classification	Count of Classification
Banking/ Financial Services	23	Other	6
Car Wash	4	Parking	10
CII Laundries	8	Public Services	101
Dedicated Irrigation Meter (DIM)	668	Religious Worship	78
Education	80	Retail	174
Entertainment/ Public Assembly	75	Services	228
Food Sales and Service	161	Technology/science	6
Healthcare	84	Utility	51
Lodging/ residential	58	Warehouse/storage	25
Manufacturing/industrial	28	Water Recreation	6
Mixed Use	156		
Office	83		
		Grand Total	2,113

# LESSONS LEARNED

Current Enterprise system 26 years old (when we started)

SIC, NAICS codes outdated in billing system

Manual process

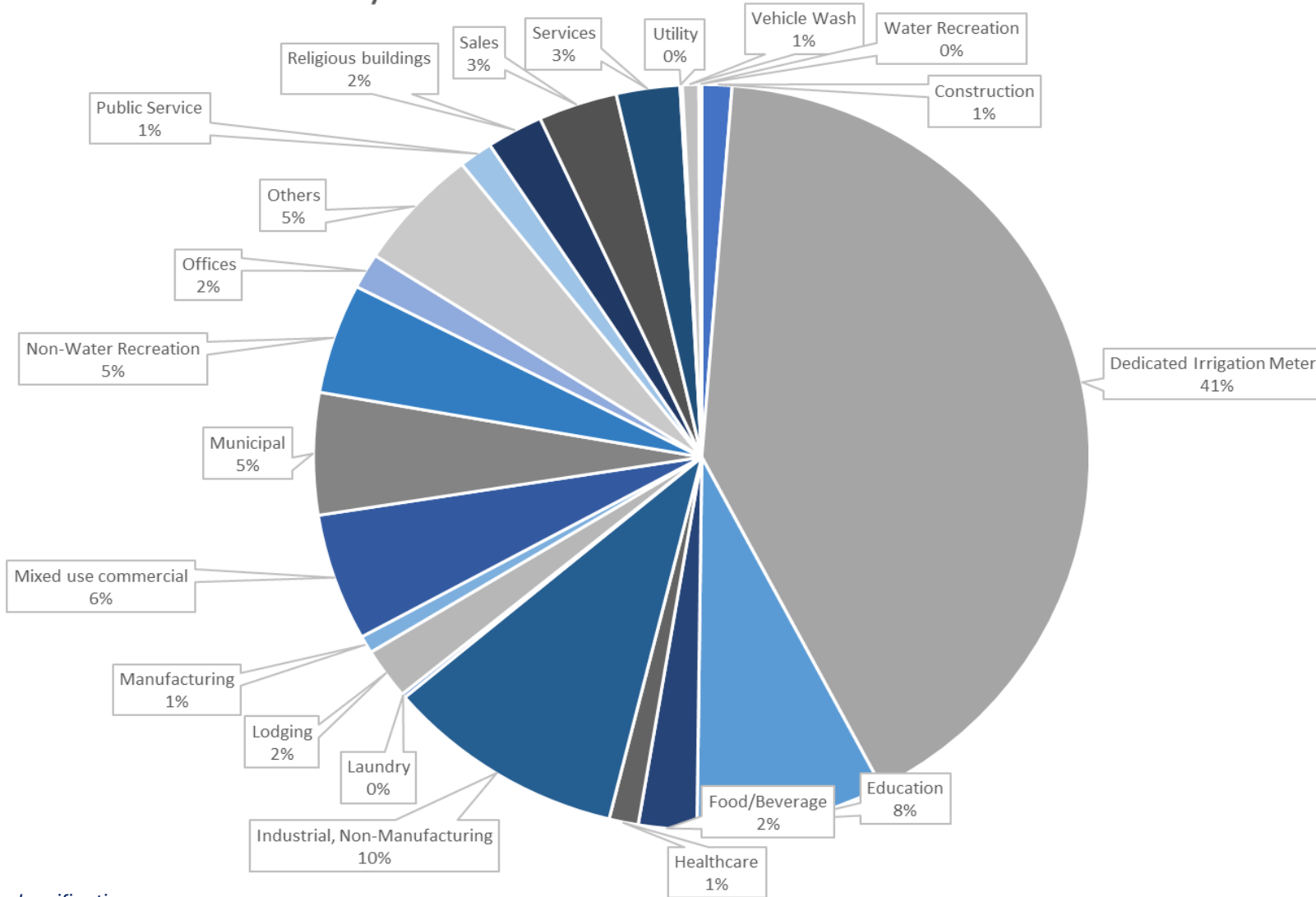
Helpful for cleaning up information already in the billing system

Back up person(s)

Document the approach

# USING THE DATA- WHERE'S OUR COMMERCIAL WATER GOING?

2022 CII Classification by Total CCF



Analysis with DWR 19 classification



# ANALYZE TO GAIN BUY IN AND SUPPORT FROM THOSE WHO NEED TO HELP MAINTAIN IT

## 2022 Meters and CCF by Classification without residential and including construction

Classification	Meter Count	% of Meter Total	2022 CCF	% of CCF Total
Construction	80	2.83%	40,932	1.25%
Dedicated Irrigation Meters	654	23.13%	1,343,560	41.08%
Education	62	2.19%	257,460	7.87%
Food/Beverage	132	4.67%	79,256	2.42%
Healthcare	88	3.11%	39,775	1.22%
Industrial, Non-Manufacturing	277	9.80%	327,715	10.02%
Laundry	6	0.21%	5,730	0.18%
Lodging	52	1.84%	72,123	2.20%
Manufacturing	54	1.91%	24,681	0.75%
Mixed use commercial	341	12.06%	180,451	5.52%
Municipal	33	1.17%	172,943	5.29%
Non-Water Recreation	77	2.72%	156,085	4.77%
Offices	136	4.81%	50,221	1.54%
Others	229	8.10%	173,229	5.30%
Public Service	67	2.37%	46,257	1.41%
Religious buildings	85	3.01%	77,021	2.35%
Sales	181	6.40%	107,792	3.30%
Services	233	8.24%	86,476	2.64%
Utility	22	0.78%	3,220	0.10%
Vehicle Wash	11	0.39%	22,209	0.68%
Water Recreation	7	0.25%	3,853	0.12%
Grand Total	2,827	100.00%	3,270,989	100.00%

CII Classifications - DWR 19 classifications

QUESTIONS?