



ENVIRONMENTAL PROGRAM DATA MANAGEMENT AND ANALYSIS USING TABLEAU

C-3/29 Brian Taylor, Rafael Maestu

March 29, 2022



**24th California Unified Program
Annual Training Conference**
March 22, 23, 24, 29, 30, 31 - 2022

Thank you to all our 2022 SPONSORS and EXHIBITORS!



DTSC
Department of Toxic
Substances Control



CalEPA
California Environmental
Protection Agency



Accela

CleanEarth™



VALLEY PACIFIC



Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES



Tanknology



SOUTHERN CALIFORNIA
EDISON®
Energy for What's Ahead®



A Republic Services Compar



esri
THE SCIENCE OF WHERE®

TRINCHERO

Family Estates



www.nesglobal.net



CITADEL EHS
assess · resolve · strengthen



TAIT
SINCE 1964



CDPH
California Department Of
PublicHealth

Yorke
ENGINEERING, LLC
www.YorkeEngr.com



California Compliance
School



A Trumvirate
Environmental Co.

Other Important CUPA 2022 Info for You

- Most of last week's Sessions are available as "Watch Now"
- Slido for Polls/Q&A for 90% of Sessions
- Check for Post Zoom meeting follow up link in Q&A
- Zoom meetings – Use Q&A/Stay in meeting for post Session...there will be NO "Are you still watching?" in Zoom
- To earn CEUs, make sure to join the Session within the first 10 minutes for LIVE Sessions, click on "Are you still watching?" popups and attend at least 90% of the Session. Complete Session Evaluations and Conference Survey.



24th California Unified Program
Annual Training Conference
March 22, 23, 24, 29, 30, 31 - 2022

Environmental Program Data Management and Analysis in Enforcement

Brian Taylor, Senior Engineering Geologist
State Water Resources Control Board
Office of Enforcement
Underground Storage Tank Unit

24th California Unified Program
Annual Training Conference
March 22, 23, 24, 29, 30, 31 - 2022



Purpose of Today's Presentation

- In today's presentation we will discuss OE's usage of the business intelligence software, Tableau, to track, analyze and report program data. We will compare a custom spatial visualization to similar agency models.
- Takeaways
 - Your use of business intelligence platforms
 - Enhanced data tracking analysis capabilities
 - Spatial visualization demo
- Data sharing.

Underground Storage Tank Enforcement Unit

➤ Background

- Unit formed in 2001

➤ Purpose

- Protect public health and safety and the environment from UST releases
- Assist other agencies with enforcement and technical Issues
- Take enforcement action when appropriate

➤ RIAT

- Removal of Improperly Abandoned Tanks

Data Presentation: Tabulated

- Tableau - A visual analytics platform for tracking and reporting project data and updating agency partners

AutoSave

File Home Insert Page Layout Formulas Data Review View Developer Help Acrobat Table Design

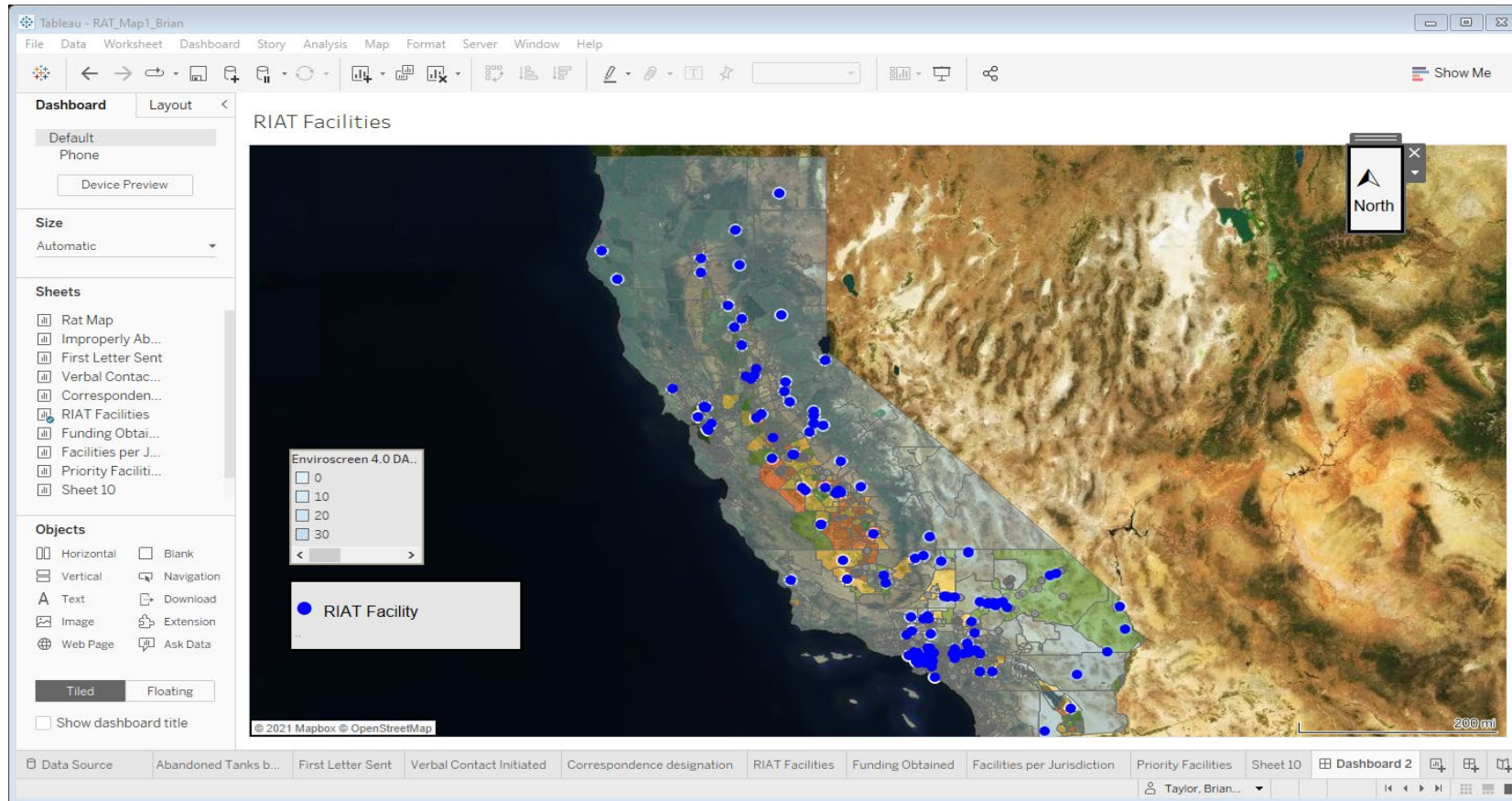
Share Comment

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	
	Data_ID	GeoTrack or_GLOB AL_ID	CENS_ID	PROJECT_NAME	ADDRESS	Zip_Code	CITY	2016_Impr specify_ab standard	LEAD	Initial_rec	2021_Correspo nence_desig nation	Date_Verbal _Contact_Initiat ed	First_Res ponsor_da te	second_L etter_sen d_date	Longitude	Latitude	second_R esponse_ date	Letter_De levery_Sta tus	Profile_D eveloped	Current_Letter_Status	GeoTrack er_Updated	RUST_Eli gibility_D etermination	RUST_Ap plication_ Info_Sent to_Or_g	RUST_Ap plication_ Submit	Funds obtain												
1	1	UST100002 61	1073922	STONES ONE EASY	104130TH AVE.	94603	OAKLAND	2	ALAMEDA COUNTY						-122.175929	37.74223072			7/23/2021	Tanks appear to be in operation. Overcame a period of abandonment. App in CERS "accepted" in 05/21/2021-DM	0																
2	2	UST100002 53	1068010	JIMENEZ GENERAL	6001FOOTHILL BLVD	94605	OAKLAND	4	ALAMEDA COUNTY	AEO	To be determined				-122.189186	37.77133931			7/23/2021	11/20/21 Rust program reports grant application was accepted letter repaired by Doug on 5/13/2021. I asked if he should be issued. They have initiated the Per CUPA, Mr. Scott Meyer, "I believe there is only one tank of unknown size." 2/28/2021, RG.	0			1	1												
3	3	UST1000010 4	1068757	QUEROLDO	14487 FIDOLETOWN	95629	FIDOLETOWN	1	AMADOR COUNTY	CUPA Oversight	CUPA Oversight				-129.7565935	38.50392703			7/23/2021	Location in Fiddletown, No tanks can be 06/27/2021 Douglas spoke to a woman @209-223-4633 who did not identify herself, was guarded, requested written contact. "Per CUPA, Mr. Scott Meyer, "I have identified only	0																
4	4	UST1000013 1	10683754	KRABBINHO FT BUILDING	204 N MAIN STREET	95642	JACKSON	2	AMADOR COUNTY	AEO	To be determined		8/27/2021		-129.7746795	38.56024962			8/27/2021		0																
5	5	T06070012 3	10276408	JESSE M LANGE DISTRIBUTION GINC	11226 MIDWAY	95328	CHICO	5	Butte County	NONC	Initiate Verbal Contact				-121.8114	39.7112					1																
6	6	UST1000017 1	10276135	JOE'S SUPER STOP	1627 HWY 99	95948	GRIDLEY	4	BUTTE COUNTY	Cleanup	Closed				-121.8114	39.7112				No contact, phone disconnected	0																
7	7	UST1000017 2	10734502	ATVAL'S GAS STATION	1320 B STREET	95968	GROVILLE	3	BUTTE COUNTY	AEO	To be determined				-121.6879576	39.364457			7/23/2021		0																
8	8	UST100000 44	10768953	GAS MART	141 WEST ST CHARLES	95249	SAN ANDREAS	3	CALAVERAS COUNTY	Cleanup	Closed				-121.5504801	39.48876844				Facility active, tanks in operation, DM: 3 USTs confirmed 2/28/2021, RG	0																
9	9	T1000001 24	10009042	Saint Mary's College of California	1328 St. Marys Rd	94556	Moraga	7	Contra Costa County Health Services Department	AEO	To be determined		8/30/2021		-122.1107	37.84151			8/27/2021	06/30/2021 Douglas heard back from Kevin Brown of Region 5. Mr. Brown confirms that remaining tanks being addressed through LUST. Moved file to closed folder. There are 06/29/2021 - Reached out to Adam Springer, says Desert tank is in compliance, status will be updated in CERS, they may not be using it much but it is being monitored with enough fuel to run CSLD test and pass. 8/29/2021 - Solid Douglas contact the NPAR Regional letter on file.	1																
10	10	UST1000017 0	10007300	TOP GAS & FOOD	1522 RUMFILL BLVD	94806	SAN PABLO	3	INTRA COSTA COUN	NONC	Initiate Verbal Contact				-122.1107	37.84151			8/27/2021		1																
11	11	UST100000 45	not in CERS	MEYERS BEACON	3208 HWY 50	95650	MEYERS	4	EL DORADO COUNTY	CUPA Oversight	Closed				-121.3568625	37.85523001					1																
12	12	UST100002 86	not in CERS	SAHAGAN PROPERTY	1285 N FIRST ST	93703	FRESNO	1	FRESNO COUNTY	NPAR	NPAR				-120.8207216	36.85105596				Fresno, No CERS	0																
13	13	UST10000278	not in CERS	LAS PALMAS TEXISTA	1304 W JENSEN AVE	93708	FRESNO	2	FRESNO COUNTY	CUPA	To Contact CUPA or DA				-119.7726474	36.75932195				Fresno, No CERS. Tanks removed. Letter on file - DM	0																
14	14	UST100000 14	not in CERS	DOYAL'S IMPACT	22425 FERRIS BLVD	93704	FRESNO	3	FRESNO COUNTY	CERS	To Contact CUPA or DA				-119.7726474	36.75932195				Fresno, No CERS. Confirmed by Henry Tran. Received date 4-20-2019. Owner letter on file.	1																
15	15	UST100000 81	not in CERS	ALVARO CLARIS	1400 W CLARIS AVE	93703	FRESNO	2	FRESNO COUNTY	CERS	To Contact CUPA or DA				-119.7726474	36.75932195				Fresno, No CERS	0																
16	16	UST100000 81	not in CERS	ALVARO CLARIS	1400 W CLARIS AVE	93703	FRESNO	2	FRESNO COUNTY	CERS	To Contact CUPA or DA				-119.7726474	36.75932195				Fresno, No CERS	0																

Display Settings

Data Presentation: Graphical

“A picture is worth a thousand words.” – Fred R. Bernard



CALIFORNIA WATER BOARDS

COLLEGE OF WATER INFORMATICS



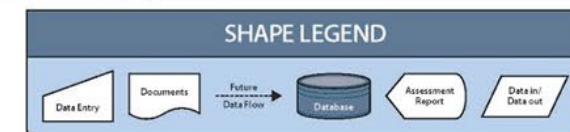
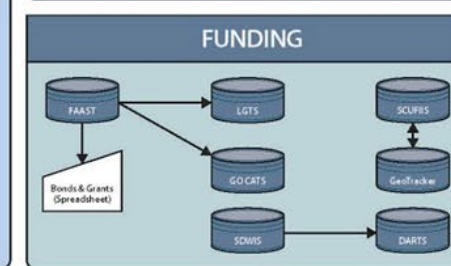
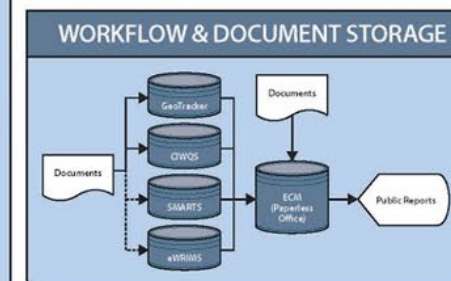
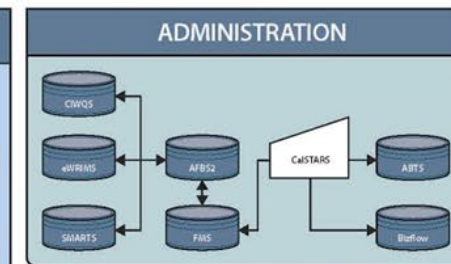
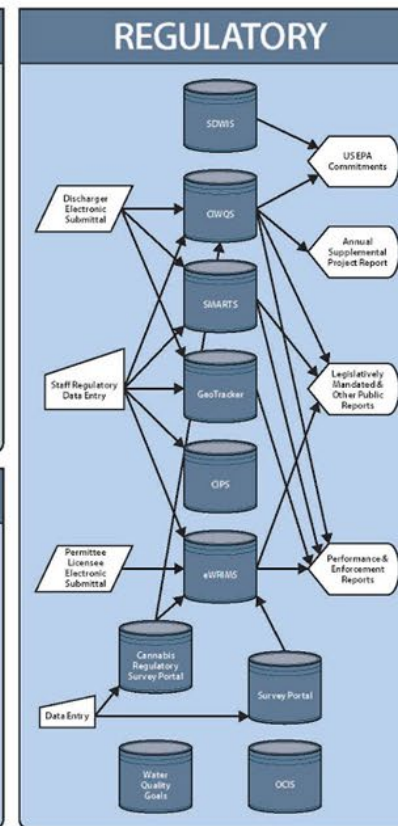
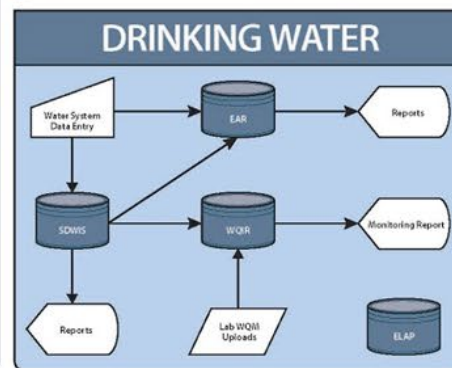
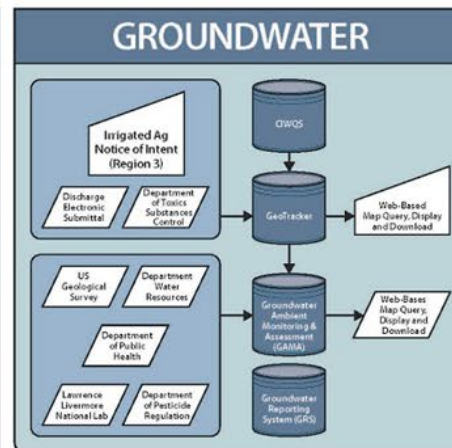
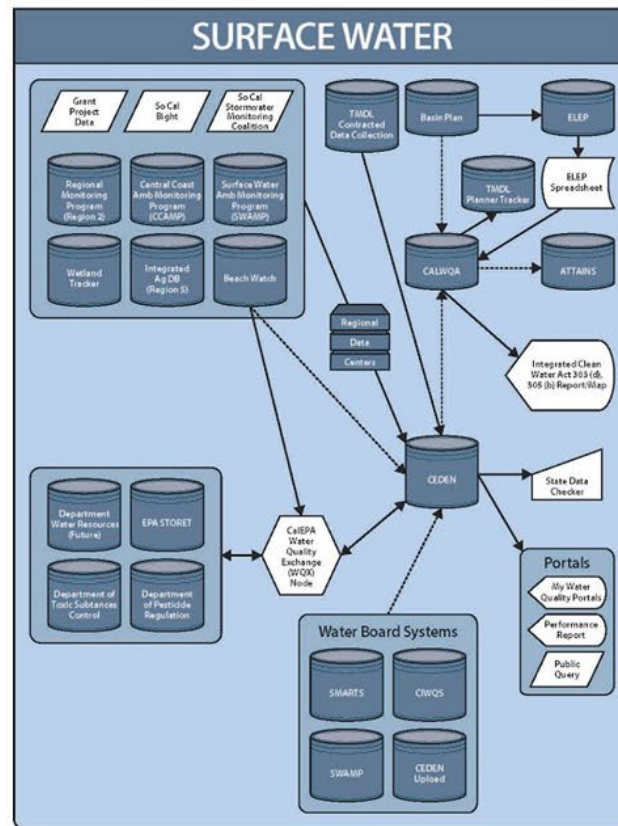
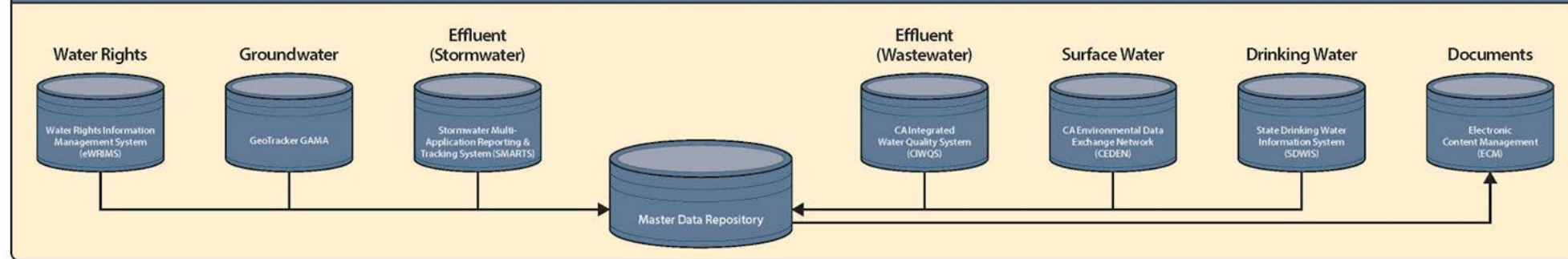
Rafael Maestu. March 29, 2022

Using Information to Manage: Enforcement

Office of Information Management & Analysis
California State Water Resources Control Board



WATER BOARDS' ENTERPRISE TECHNOLOGY APPLICATIONS AND SYSTEMS INFRASTRUCTURE



Why do we collect, store and use data?

1. To inform our **data-driven management** and planning activities – performance report cards, workplans, resource assignment, *evaluating program effectiveness*, and many others examples;
2. To inform our **critical decisions** regarding our mission(s) and water management responsibilities – water allocation and use, water quality planning and “policies,” permitting, program prioritization, etc.; and
3. To provide **transparency** to our many partners and stakeholders for their use, interests and purposes.



Goal 5 of the 2008 Water Board's Strategic Plan is to “Improve transparency and accountability by ensuring that Water Board goals and actions are clear and accessible, by demonstrating and explaining results achieved with respect to the goals and resources available, by enhancing and improving accessibility of data and information, and by encouraging the creation of organizations or cooperative agreements that advance this goal, such as establishment of a statewide water data institute.”



- ❧ Water Boards are leading the State's efforts in transparency and accountability with the Performance Report.
- ❧ State Water Board has been publishing its core water datasets on the State's main open data portal.
- ❧ The releasing of open data can improve the effectiveness and efficiency of Water Board programs, improve public trust, facilitate conversations with stakeholders, and encourage participation.
- ❧ There is increasing demand for government data and information from the public and stakeholders.

AB1755 requirements operative to WBs

- 🔗 DWR is leading effort to build platform, develop protocols, etc.
- 🔗 Water Board and WQ Monitoring Council is supporting DWR effort(s)
- 🔗 Water Board must publish open data by September 2019. In addition, by August 2020 we must:
 - 12415. The statewide integrated water data platform created pursuant to Section 12410 shall, at a minimum, do all of the following:
 - (a) Integrate existing water and ecological data information from multiple autonomous databases managed by federal, state, and local agencies and academia using consistent and standardized formats.
 - (b) Integrate the following datasets, as available:
 - (1) The department's information on State Water Project reservoir operations, groundwater use, groundwater levels, urban water use, and land use.
 - (2) The state board's data on water rights, water diversions, and water quality through California Environmental Data Exchange Network (CEDEN)

2017 Enforcement Policy

- In order to inform the public of the State and Regional Water Boards performance with regard to enforcement activities, there are a number of legislatively mandated and elective reports the Water Boards are committed to producing on a regular basis.

Recommended Performance Measures for the Water Boards' Enforcement Programs

Measure Name	Measure Description
Self-Monitoring Report Evaluation	Number of self-monitoring reports due, received, and reviewed and percentage of reports reviewed
Inspection Monitoring	Number of inspections and the percentage of facilities inspected
Violations	Number of violations identified
Compliance Rates	Percentage of facilities in compliance, based upon the number of facilities evaluated
Enforcement Response	Percentage of violations that received an enforcement action
Enforcement Activities	Number and type of enforcement actions
Penalties Assessed and Collected	The amount of penalties assessed and collected, SEPs approved, and injunctive relief
MMP Violations Addressed	Number of facilities with MMP violations receiving a penalty
Recidivism	Number and percentage of facilities returning to non-compliance for the same violation(s) addressed through an enforcement action
Environmental Benefits (as a result of an enforcement action)	Estimated pounds of pollutants reduced/removed through cleanup (soil or water), and wetlands/stream/ beach/creek/ river miles protected/restored (acres, miles, etc.)

Enforcement Reports

State Water Board Office of Enforcement

Enforcement Reports - Annual Enforcement Reports

Since 2011, the **Annual Enforcement Report** has been combined with the Annual Performance Report. Links to the Enforcement Section of the Performance Report as well as the separate Enforcement Reports are provided below:

- [Annual Enforcement Report for 2013](#)
- [Annual Enforcement Report for 2012](#)
- [Annual Enforcement Report for 2011](#)
- [Annual Enforcement Report for 2010](#)
- [Annual Enforcement Report for 2009](#)
- [Annual Enforcement Report for Fiscal Year 2007-2008](#)
- [Baseline Enforcement Report for Fiscal Year 2006-2007](#)

13385 Enforcement Reports

Pursuant to CWC 13385(o), the State Water Board is required to report inf mandatory minimum penalties. This requirement pertains to National Pc the Water Board produced an annual report (13385 Report) addressing th

- [2020 13385\(o\) Enforcement Report](#)
- [2019 13385\(o\) Enforcement Report](#)
- [2018 13385\(o\) Enforcement Report](#)
- [2017 13385\(o\) Enforcement Report](#)
- [2016 13385\(o\) Enforcement Report](#)
- [2015 13385\(o\) Enforcement Report](#)
- [2014 13385\(o\) Enforcement Report](#)

13385 Enforcement Reports prior to 2014 are available upon request. Ple



Enforcement Reports

OOE prepares and/or coordinates reports on the effectiveness of Water Board enforcement activities. The Water Boards' Water Quality Enforcement Policy articulates enforcement expectations and priorities for the State and the nine Regional Water Boards. OE is responsible for updating the Water Quality Enforcement Policy and evaluating performance metrics for enforcement effectiveness

- [Annual Performance Reports](#)
- [13385 Reports](#)
- [Annual SEP Report](#)
- [Citizen Suits](#)
- [Mandatory Minimum Penalty](#)
- [U.S. EPA Framework Report](#)
- [Deconstructing Enforcement](#)
- [13399 Reports](#)

- Since 2011, the **Annual Enforcement Report** has been combined with the Annual Performance Report. Previous **Annual Enforcement Reports** can be found on the [Annual Enforcement Reports Page](#).

Summary Statistics

	FY 18/19	FY 19/20	FY 20/21
Total Regulated Facilities	53,566	54,145	51,918
Individual Permits Issued or Updated	807	795	756
Inspections Conducted	7,485	7,515	5,991
Penalty and Compliance Actions Taken	2,174	2,133	2,297
Penalties Assessed	\$17.4M	\$12.0M	\$14.5M
TMDLs Adopted (New and Reconsidered)	10	2	12
Clean Water State Revolving Funds Allocated	\$262M	\$600M	\$326M
Drinking Water State Revolving Funds Allocated	\$231M	\$147M	\$260M

Action (Rb Off)

4

Program C

NPDESWW

Violation Type

(All)

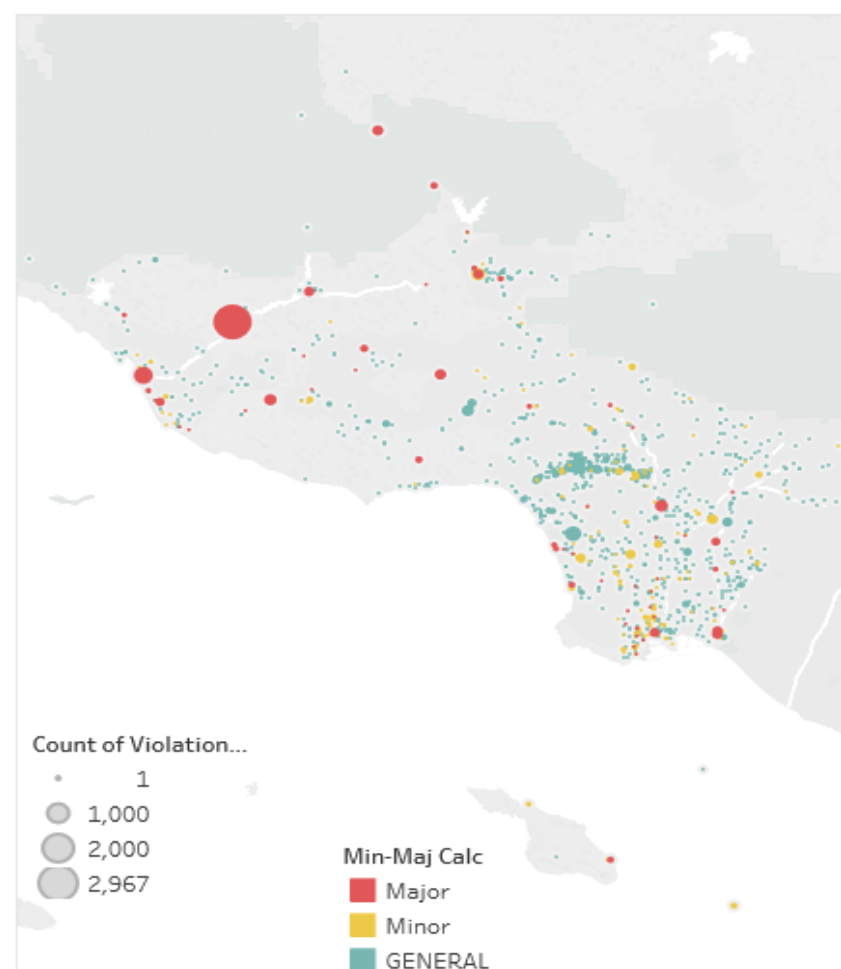
Violation Subtype

(All)

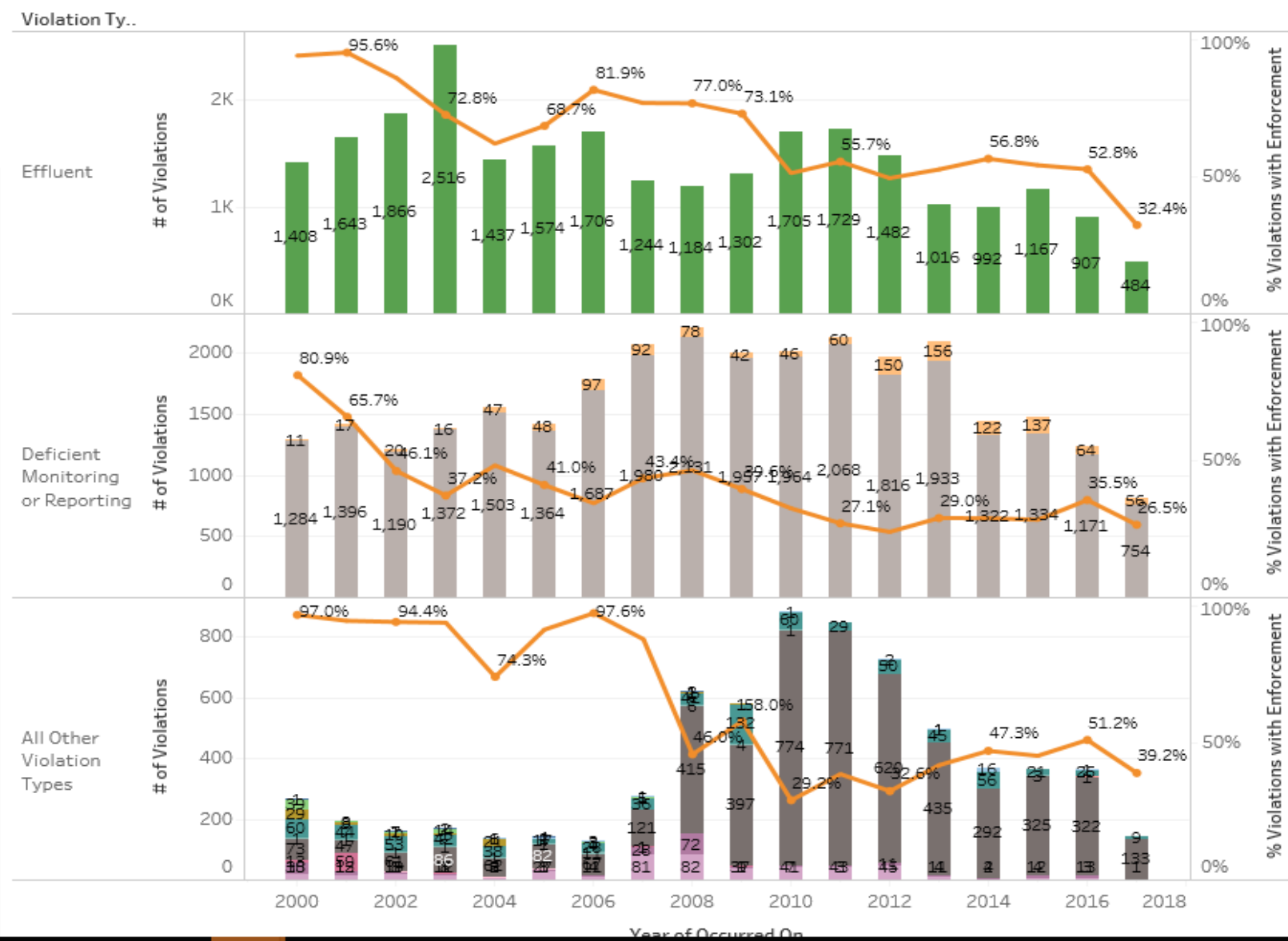
Enforcement Highest Level

(All)

	Min-Maj Calc		
	Major	Minor	GENERAL
Number of Violations	8,257	5,784	19,356
Facilities with Violations	61	153	1,017
% Violations with Enforcem..	83%	62%	37%

Map Facilities With Violations. Regional Board: **Los Angeles**


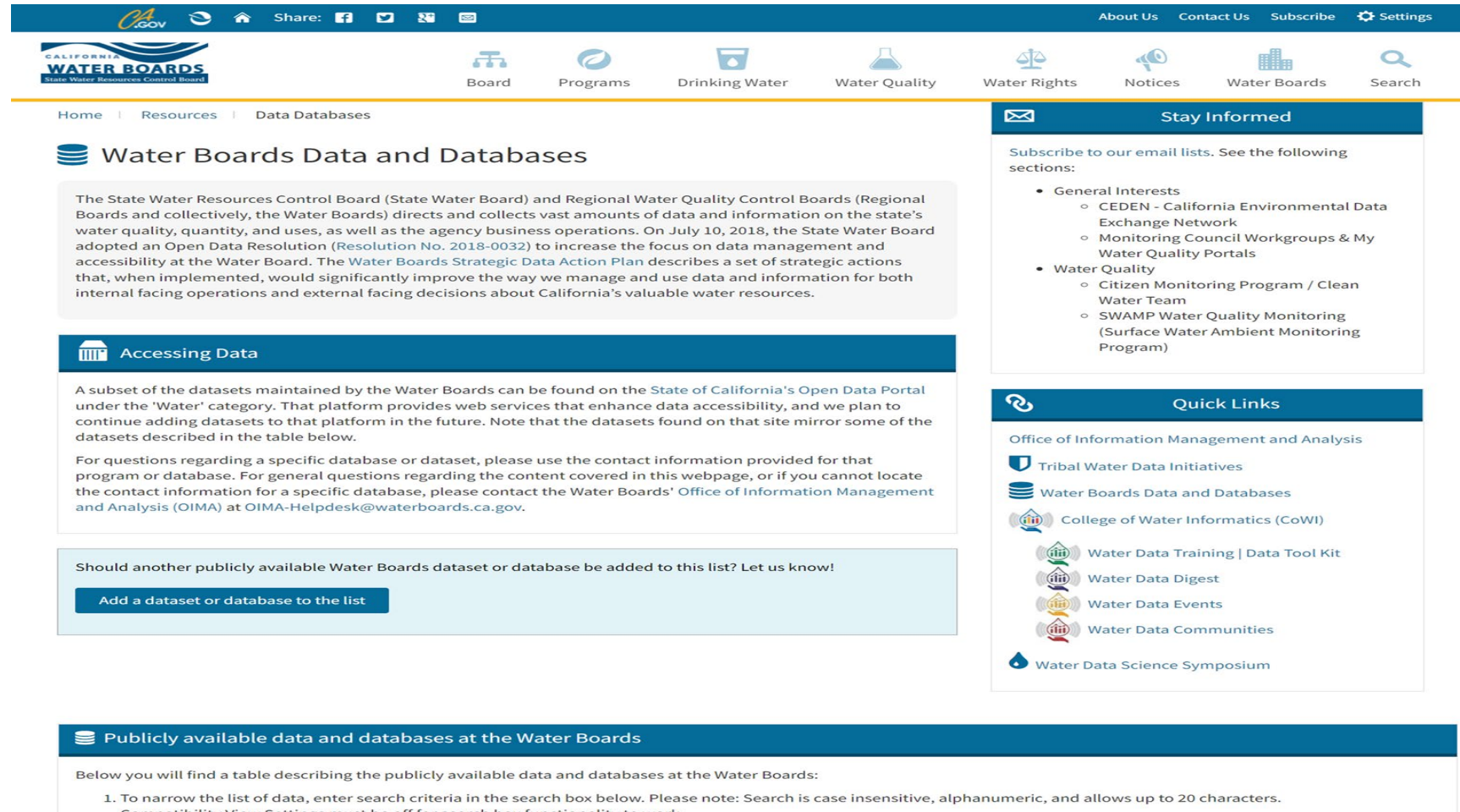
Violation Types



Data Science Tools in Support of Enforcement Programs

- Business Intelligence: uses analytics, data mining, data visualization, and data tools to help organizations make better data-driven decisions.

What data and databases are available (and where)?



The screenshot shows the official website of the California Water Boards. The header includes the state logo, navigation links (Home, Resources, Data Databases), and a top bar with social media and utility links. The main content area is titled "Water Boards Data and Databases" and contains a detailed paragraph about the state's data collection efforts. Below this is a section for "Accessing Data" which provides instructions on how to find datasets on the State of California's Open Data Portal. A call-to-action box invites users to add new datasets. To the right, there are two sidebars: "Stay Informed" with email subscription options and "Quick Links" with direct access to various data initiatives and training resources. The footer section, partially visible, introduces a table of publicly available data and databases.

Water Boards Data and Databases

The State Water Resources Control Board (State Water Board) and Regional Water Quality Control Boards (Regional Boards and collectively, the Water Boards) directs and collects vast amounts of data and information on the state's water quality, quantity, and uses, as well as the agency business operations. On July 10, 2018, the State Water Board adopted an Open Data Resolution (Resolution No. 2018-0032) to increase the focus on data management and accessibility at the Water Board. The [Water Boards Strategic Data Action Plan](#) describes a set of strategic actions that, when implemented, would significantly improve the way we manage and use data and information for both internal facing operations and external facing decisions about California's valuable water resources.

Accessing Data

A subset of the datasets maintained by the Water Boards can be found on the [State of California's Open Data Portal](#) under the 'Water' category. That platform provides web services that enhance data accessibility, and we plan to continue adding datasets to that platform in the future. Note that the datasets found on that site mirror some of the datasets described in the table below.

For questions regarding a specific database or dataset, please use the contact information provided for that program or database. For general questions regarding the content covered in this webpage, or if you cannot locate the contact information for a specific database, please contact the Water Boards' Office of Information Management and Analysis (OIMA) at OIMA-Helpdesk@waterboards.ca.gov.

Should another publicly available Water Boards dataset or database be added to this list? Let us know!

[Add a dataset or database to the list](#)

Stay Informed

Subscribe to our email lists. See the following sections:

- General Interests
 - CEDEN - California Environmental Data Exchange Network
 - Monitoring Council Workgroups & My Water Quality Portals
- Water Quality
 - Citizen Monitoring Program / Clean Water Team
 - SWAMP Water Quality Monitoring (Surface Water Ambient Monitoring Program)

Quick Links

- Office of Information Management and Analysis
- Tribal Water Data Initiatives
- Water Boards Data and Databases
- College of Water Informatics (CoWI)
- Water Data Training | Data Tool Kit
- Water Data Digest
- Water Data Events
- Water Data Communities
- Water Data Science Symposium

Publicly available data and databases at the Water Boards

Below you will find a table describing the publicly available data and databases at the Water Boards:

1. To narrow the list of data, enter search criteria in the search box below. Please note: Search is case insensitive, alphanumeric, and allows up to 20 characters.

Home / Datasets

Organizations

- California State Wa... (14)
- California Departme... (8)
- California Departme... (2)
- California Departme... (2)
- California Energy C... (2)
- California Office o... (2)
- California State La... (1)

Topics

- Water (21)
- Natural Resources (13)
- Health & Human Serv... (3)
- Economy and Demogra... (1)
- Government (1)

Tags

- california departme... (8)
- groundwater (7)
- Surface Water (7)

municipal supply wells



31 datasets found for "municipal supply wells"

Order by: Relevance

Household Water Supply Shortage Reporting System Data

In California, water systems serving one (1) to 15 households are regulated at the county level. Counties vary in their practices, but rarely do counties collect data regularly...

CSV

Ground Water - Water Quality Results

Groundwater quality data and related groundwater well information available on the page was queried from the GAMA Groundwater information system (**[GAMA...

PDF

CSV

Drinking Water - Public Water System Information

The is a curated dataset of information for all public water systems (PWS) in California, including the name, location and some general informaiton for each PWS. The source of...

PDF

TXT

Drinking Water - Public Water System Operations Monthly Water Production and ...

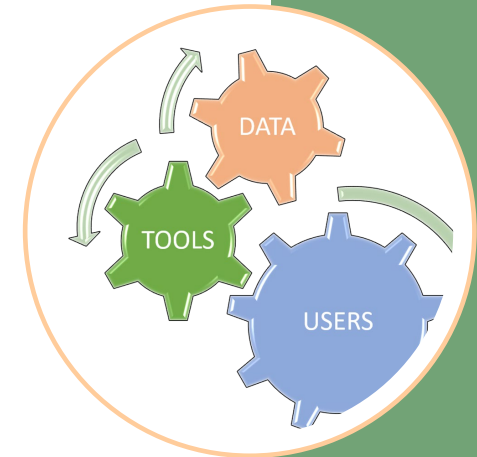
Monthly reports of the larger urban water suppliers in California on water production and conservation activities, from the California State Water Resources Control Board's...

PDF

CSV

Tools *(Business Intelligence, BI)*

- ⑩ Microsoft Excel (pivot tables, power pivot),
- ⑩ Microsoft Access
- ⑩ ArcGIS
- ⑩ R/Shiny
- ⑩ Microsoft Power BI
- ⑩ Other Statistical Analysis tools (SAS, SPSS..)
- ⑩ TABLEAU
- ⑩ SQL Query tools
- ⑩ Database reporting tools. (web-based reports, Javascript.. Tables..)



Tableau



- Easy to use
- Share data and communicate results
- Spatial and tabular data
- Data analytics: Compliance rates, risk analysis, recidivism
- Data integration with other platforms and databases
- Empowers staff to manage their own data (Minimum IT needed)
- Helps data driving business decisions, set priorities and measure results.

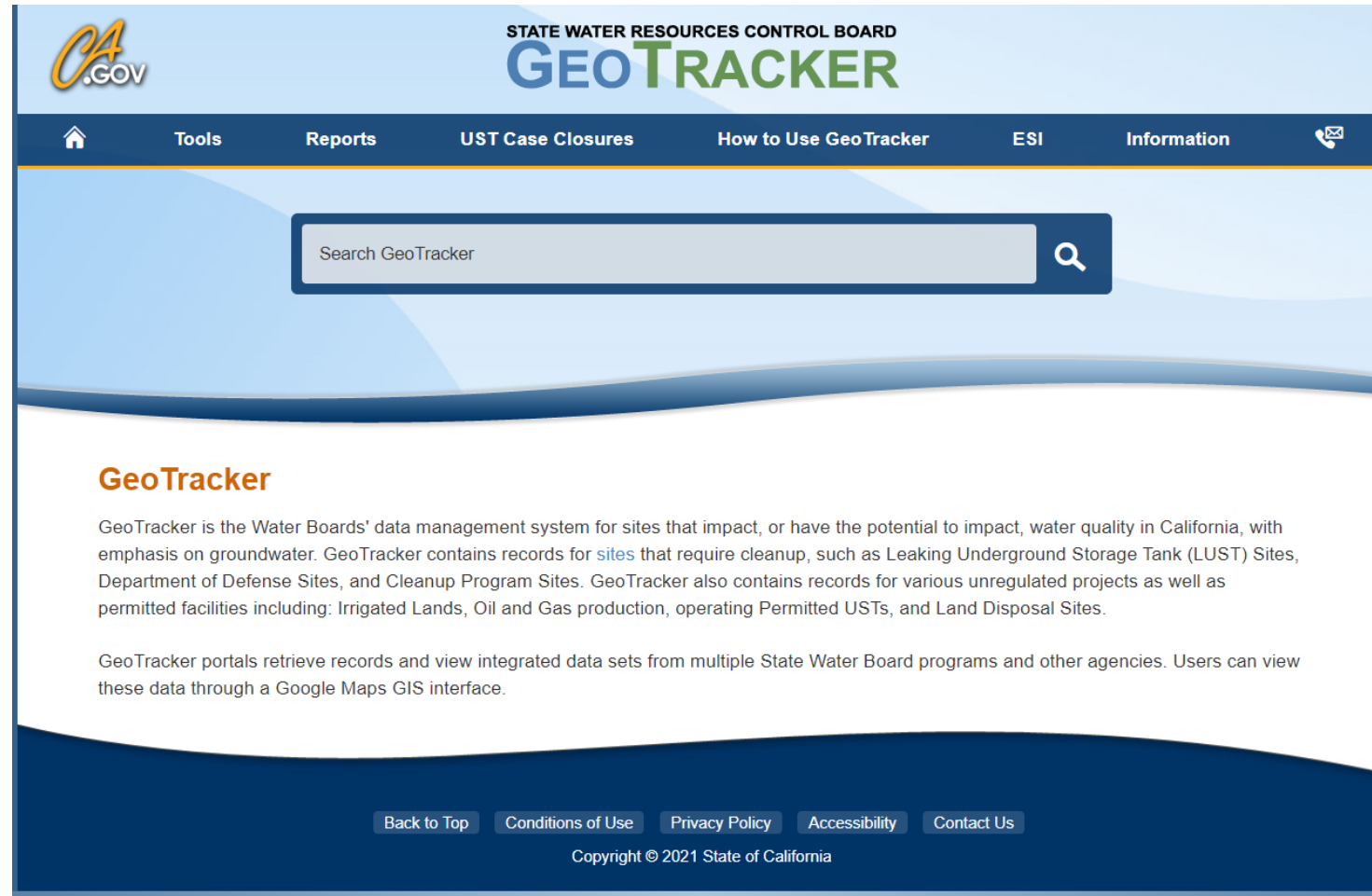
Live Demo

- Now Brian is going to show you, with a risky “live” demo, how in just a few minutes you can
 - Connect to data
 - Build a Visualization
 - Share the visualization
- Pretty cool stuff
- Take it away Brian

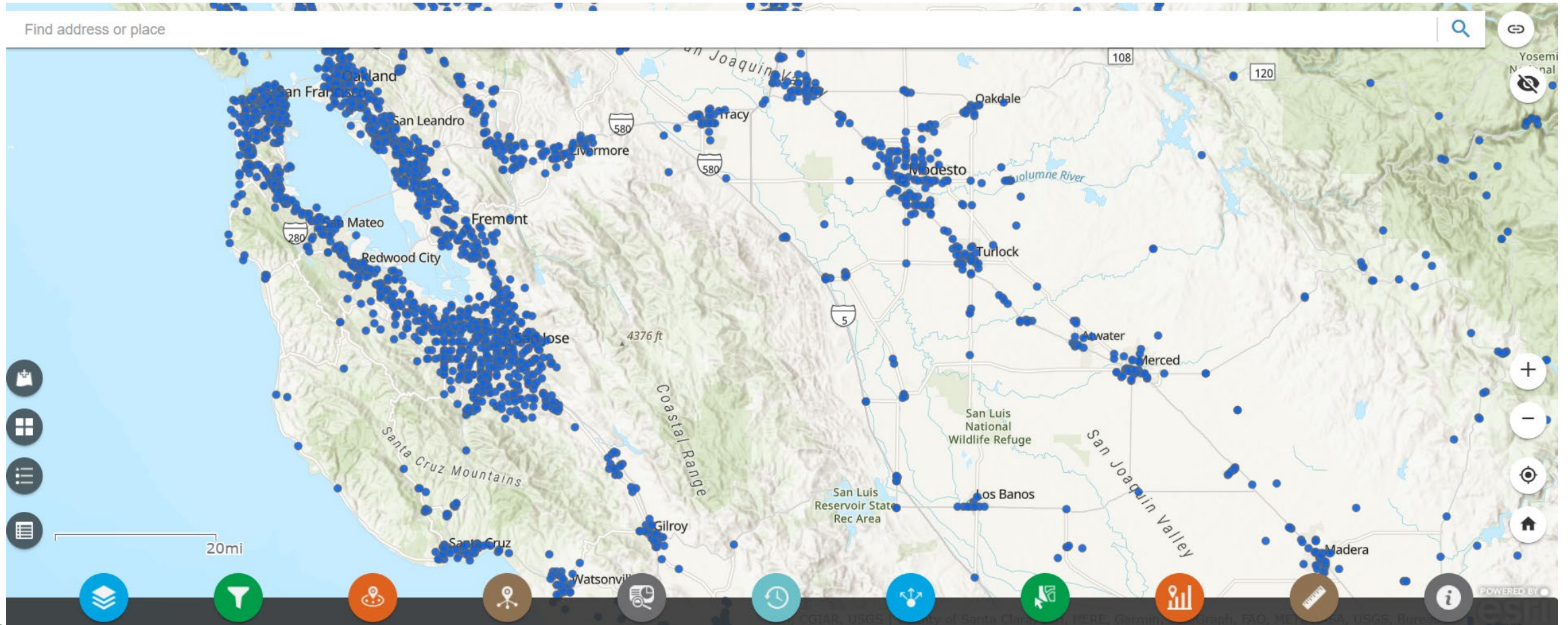
Online UST Compliance Tracking Resources

- Geotracker
- UST Finder – CalEPA
- Regulated Sites Portal – U. S. EPA

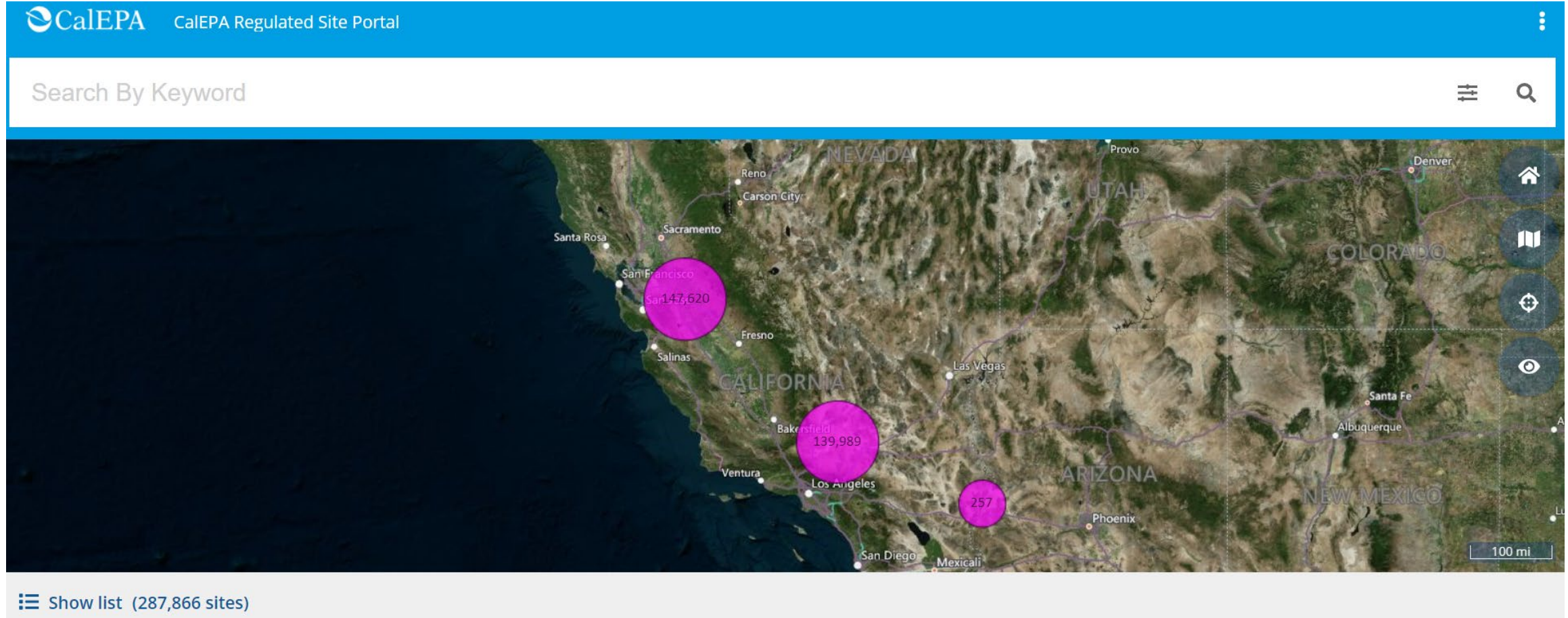
GeoTracker



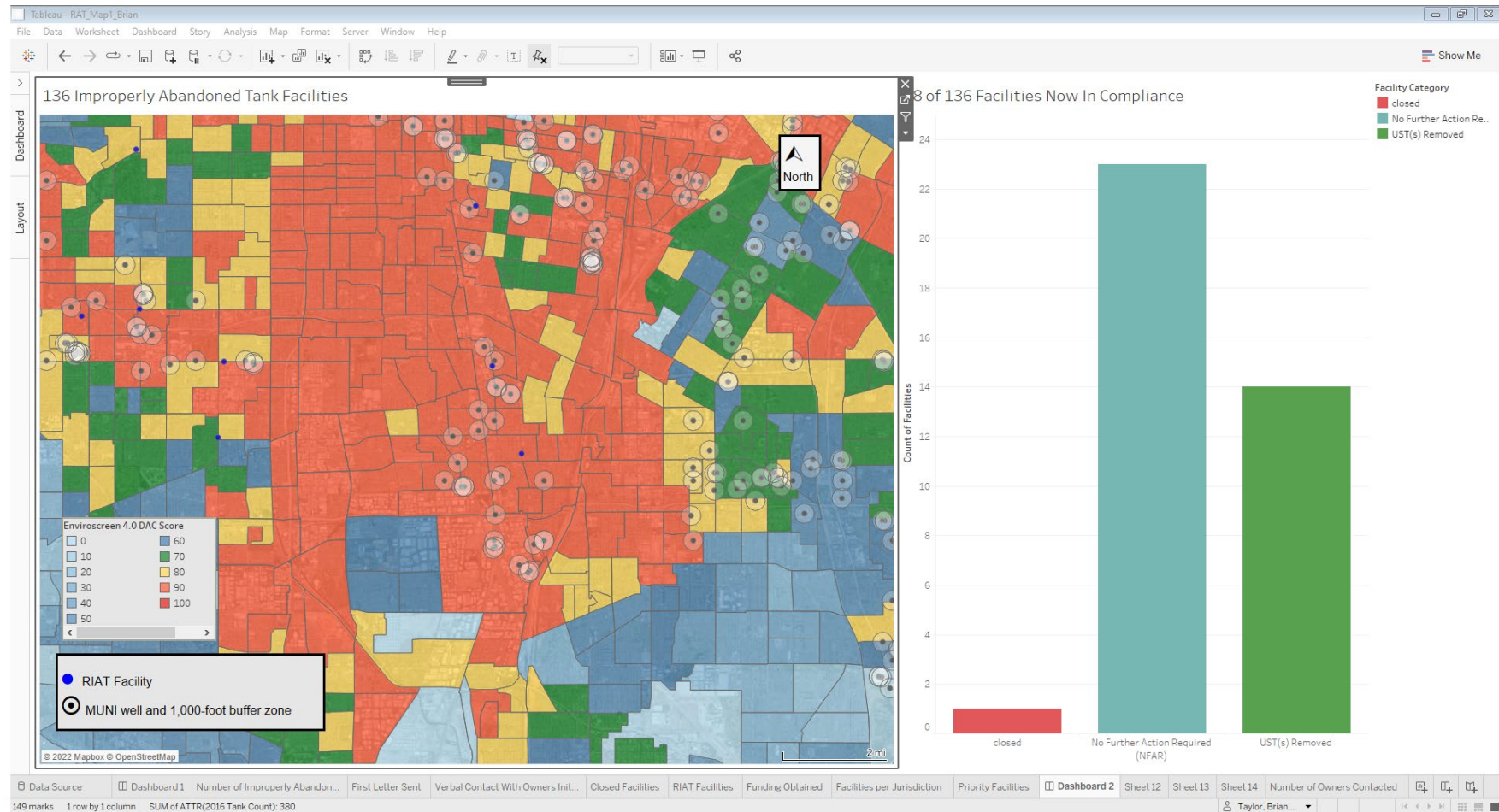
U S EPA's UST Finder



CalEPA's Regulated Sites Portal



Customized Spatial Visualization by Tableau



RIAT Facilities Shapefile

AutoSave On

RAT database_ver_02 - Saved

Taylor, Brian@Waterboards TB

FileHomeInsertPage LayoutFormulasDataReviewViewDeveloperHelpAcrobatTable Design

CutCopyFormat PainterClipboard

Calibri12A+AA-
BBIUFont

Wrap TextMerge & CenterAlignment

General\$%Number

Conditional FormattingFormat as Table

Normal2Style0NormalBadGoodNeutralCalculationCheck CellExplanatory ...Followed Hy...Styles

InsertDeleteFormatCells

ΣAutoSumFillClearSort & FilterFind & SelectEditing

ShareComments

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
	Data_ID	Geotracker_GLOBAL_ID	CERS_ID	PROJECT_NAME	ADDRESS	Zip_Code	CITY	1000_of_Muni	DAC	LEAD	Construction	date_first_letter_prepared	most_recent_verbal_contact_date	Status	initial_rec	2021_Correspondence_designation	Current_Letter_Status	Geotracker_Updated	RUST_Eligibility_Determination	RUST_Application_Info_Sent_to_Dw	RUST_Application_Submitted	Funding_Obtained	Removal_Workplan_Submitted															
1	103	UST10000032	10707688	JOSHI PROPERTY	38883 YERMO RD	92398	YERMO	No	No	San Bernardino County	SWST	5/4/2021	7/1/2021	Letters Issued	NONC	NONC issued	9/3/2021 Redhorse informed her that she was RUST ineligible due to her Missouri address. She said "she did not know what to do unless the state takes it back"	0	Ineligible																			
30	104	UST10000015	10044016	RUSTLERS TRUCK STOP	40895 SUNRISE CANYON ROAD	92398	YERMO	Yes	No	San Bernardino County					AEO	To be determined	Pulse	0																				
31	55	UST100000200	10716304	QUARTZ HILL SHELL	41966 N 50TH ST WEST	93536	QUARTZ HILL	No	No	LOS ANGELES COUNTY			1/11/2022		AEO	Initiate Verbal Contact	01/11/2022: DM contacted Mr. Robert Assil, referred to Johnny Wales.; 12/07/2021: Douglas called again, left a msg with staff requesting a call back.; 1/23/2022;	0		1/11/2022																		
32	56	UST100000229	10715098	CHOTTO KAURET AL	42201 NORTH DIVISION STREET	93535	LANCASTER	No	No	LOS ANGELES COUNTY					NOV	Initiate Verbal Contact	12/23/2021 douglas dialed 661 878 8886; msg service, no greeting. Left VM behind.; 12/17/2021: Active business, contact information on file. Confirmed by Joe	0		8/17/2021																		
33	57	UST100000207	10231546	DAVID BARNES	43859 LAKE HUGHES RD	93532	LAKE HUGHES	Yes	No	LOS ANGELES COUNTY	SWST	4/23/2021	6/4/2021	Letters Issued	NONC	NONC issued	8/17/2021 Have phone and email. Have contacted Mr. Barnes by email in June and August 17th. He stated "Hi Johnny, thanks for checking in, I'm currently doing my	0																				
34	81	UST10000063	10318783	STANCO	44250 RAGSDALE ROAD	92239	DESERT CENTER	Yes	No	RIVERSIDE COUNTY					CLUPA	To Contact CLUPA or	According to CERS, there are 3 USTs Empty and triple rinsed, also: This site is currently in Probate Court and is awaiting possible Real Estate transfer 9/26/21. RG. Residence Tank 550 gal. DM	0																				
35	68	UST10000097	10862077	PRIVATE RESIDENCE	44250 ROAD 415	93614	COARSEGO LD	No	No	MARIPOSA COUNTY					AEO	To be determined	01/05/2022: Reached Greg, confirmed email OILRITE@TWC.COM, referred to Johnny.; 01/04/2022: called, Greg should be available tomorrow morning. Also called Mr. Lee and	0		1/5/2022																		
36	58	UST100000245	10279450	OIL-RITE EXPRESS LUBE	44451 SIERRA HWY	93534	LANCASTER	Yes	No	LOS ANGELES COUNTY			1/5/2022		AEO	Initiate Verbal Contact	Priority letter Site. April 19 2021	1																				
37	105	UST100000102	10035346	ABANDONED DUSTS	44598 NATIONAL TRAILS HWY	92365	NEWBERRY SPRINGS	Yes	Yes	San Bernardino County					NFAR	NFAR	12/08/2021 a Mr. Nighswonger reached out to Douglas regarding grant assistance referred to Johnny. 12/06/2021 Per Guy Hickler's referral, Douglas contacted Mr. Fresno, No CERS. Confirmed removed on 4-30-2018 by Harry Yee	0	Eligible	12/6/2021	12/16/2021																	
38	59	UST100000247	10296445	PACINA GARDENS LLC	4500 W 116TH ST	90250	HAWTHORNE	No	Yes	LOS ANGELES COUNTY			12/6/2021		AEO	Initiate Verbal Contact	Michael Harris shared this facility was closed	1																				
39	23	UST100000297	10700422	MULHOLLAND LAND	4796 E KINGS CANYON RD	93702	FRESNO	No	Yes	FRESNO COUNTY					NFAR	NFAR																						
40	126	UST100000177	10706234	GEE	4880 OLIVEHURST	95361	OLIVEHURST	No	No	MARIPOSA COUNTY																												

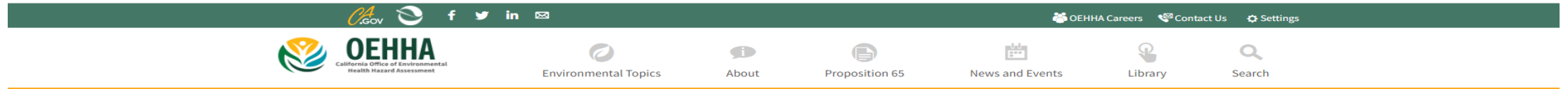
Page 10Page 24Page 38Page 66

Letters Sent tank status compliance tracker enforcement Matrix last contact owner check tanks removed_no NFAR templates geocor ...

Display Settings

Online Shapefile acquisition

CalEnviroScreen 4.0 DAC



[Home](#) | [CalEnviroScreen](#) | [CalEnviroScreen 4.0](#)

CalEnviroScreen 4.0

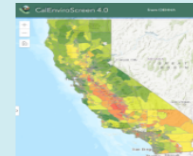


Oct 20, 2021

The Office of Environmental Health Hazard Assessment (OEHHHA) announces the availability of a new version of the California Communities Environmental Health Screening Tool: CalEnviroScreen 4.0. CalEnviroScreen is a screening methodology that can be used to help identify California communities that are disproportionately burdened by multiple sources of pollution. The [CalEnviroScreen 4.0 results](#) are available as a mapping tool. [Maps of the CalEnviroScreen 4.0 Indicators](#) are also available.

This version updates CalEnviroScreen in a variety of ways:

- All indicators contain the most recent available data.
- There are improvements in the way some indicators are calculated to better reflect environmental conditions or population vulnerability to pollution.
- One new indicator, [Children's Lead Risk from Housing](#), accounts for possible lead exposure from paint and other sources in or around the home.



[En español aqui](#)

CalEnviroScreen 4.0 Report and Documents:

- [CalEnviroScreen 4.0 Report](#)
- [Summary of Changes in CalEnviroScreen 4.0](#)
- [CalEnviroScreen 4.0 Press Release](#)
- [Comunicado de Prensa de CalEnviroScreen 4.0](#)
- Responses to major comments received on the CalEnviroScreen 4.0 draft (coming soon)

The [draft CalEnviroScreen 4.0](#) was released for public comment from February 19 to May 14, 2021. OEHHHA convened a webinar and six workshops on the draft CalEnviroScreen 4.0 for the public to learn about the updates and provide public comment on the draft. Visit [the workshop and public comment page](#) to view the workshop summaries and public comments received on the draft.



24th California Unified Program
Annual Training Conference
March 22, 23, 24, 29, 30, 31 - 2022

Online Shapefile acquisition

Municipal supply wells

The screenshot shows a web browser at the URL `data.cnra.ca.gov/dataset/ground-water-water-quality-results`. The page header includes the California Natural Resources Agency logo and navigation links: Open Data, Organizations, Topics, Training, Log in, Sign up, and Contact. The breadcrumb trail is: HOME / ORGANIZATIONS / CALIFORNIA STATE WATER ... / GROUND WATER - WATER ...

Ground Water - Water Quality Results

0 Followers

Groundwater quality data and related groundwater well information available on the page was queried from the GAMA Groundwater information system ([GAMA GIS](#)). Data provided represent a collection of groundwater quality results from various federal, state, and local groundwater sources. Results have been filtered to only represent untreated sampling results for the purpose of characterizing ambient conditions.

Data have been standardized across multiple data sets including chemical names and units. Standardization has not been performed for chemical result modifier and others (although we are working currently to standardize most fields). Chemicals that have been standardized are included in the data sets. Therefore, other chemicals have been analyzed for but are not included in GAMA downloads. Groundwater samples have been collected from well types including domestic, irrigation, monitoring, municipal. Wells that cannot accurately be attributed to a category are labeled as "water supply, other".

For additional information regarding the GAMA GIS data system please reference our [factsheet](#).

Organization

California State Water Resources Control Board

The State Water Resources Control Board and the nine Regional Water Quality Control Boards, collectively known as the

Dataset Topics Activity Stream Showcases

Data and Resources

	GAMA Data Dictionary Description of field types for GAMA Groundwater Quality Results.	More Info Download
	GAMA - All Wells (Location data only) This file contains location data for all wells in the GAMA Groundwater Information System.	Preview Download
	GAMA - Department of Pesticide Regulation This file contains statewide groundwater quality data for all chemicals in the GAMA Department of...	Preview Download
	GAMA - Department of Water Resources This file contains statewide groundwater quality data for all chemicals in the GAMA Department of...	Preview Download
	GAMA - Division of Drinking Water (pre 1995) This file contains statewide groundwater quality data for all chemicals in the GAMA Division of...	Preview Download
	GAMA - Division of Drinking Water (1995-1999)	Preview Download

Spatial Visualization: Assembly

File Data Server Window Help

Connections [Add](#)

- RAT database_ver_01 (Microsoft Excel)
- DRAFT_CES4_Results (Spatial file)
- RATMap (Spatial file)

Files

- DRAFT_CES4_Results.shp
- gamawells_Feb2021.shp
- RATMap.shp
- RatMap20211104.shp
- RATMap20211229.shp
- RatMap20220105.shp
- New Union

Letters Sent (RAT database_ver_01)

Connection: ☒ Live ☐ Extract Filters: 0 | [Add](#)

DRAFT_CES4_Results.shp

gamawells_Feb2021.shp

RATMap.shp

RATMap.shp 39 fields 135 rows 100 rows

Name	Type	Field Name	Physical Table	Remo...
RATMap.shp	#	Data ID	RATMap.shp	Data_ID
	Abc	Geotrack...	RATMap.shp	Geotra...
	Abc	Cers Id	RATMap.shp	CERS_ID
	Abc	Project Na	RATMap.shp	PROJE...
	Abc	Address	RATMap.shp	ADDRE...
	⊕	Zip Codes	RATMap.shp	Zip_Co...
	⊕	City1	RATMap.shp	CITY
	#	2016 Impro...	RATMap.shp	2016_I...
	#	Removed...	RATMap.shp	Remov...
	#	Added ta...	RATMap.shp	Added_...
	#	Replaced T	RATMap.shp	Replac...
	#	2021 Impro	RATMap.shp	2021_I...
	#	Tanks clos	RATMap.shp	Tanks_...
	Abc	1000 of ...	RATMap.shp	1000_o...
	Abc	DAC1	RATMap.shp	DAC
	Abc	Lead	RATMap.shp	LEAD

#	Abc	Abc	Abc	Abc	⊕	⊕	#	#	#
RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp	RATMap.shp
Data ID	Geotracker1	Cers Id	Project Na	Address	Zip Codes	City1	2016 Impro	Removed Ta	Added tank
1	UST10000261	10739212	STONES ONE EASY	1141 98TH AVE.	94603	OAKLAND	2	0	
2	UST10000259	10669015	JIMENEZ GENERAL	6001 FOOTHILL BLVD	94605	OAKLAND	4	0	
3	UST10000134	10863757	QUEIROLO	14487 FIDDLTOWN	95629	FIDDLTOWN	1	0	
4	UST10000131	10863754	KRABENHOFT BUILDING	204 N MAIN STREET	95642	JACKSON	2	1	
5	T0600700129	10276408	JESSE M LANGE DISTRIBUTI...	11226 MIDWAY	95928	CHICO	5	0	
6	UST10000171	10276135	JOE'S SUPER STOP	1627 HWY 99	95948	GRIDLEY	4	0	
7	UST10000172	10734502	ATWAL'S GAS STATION	1920 B STREET	95966	OROVILLE	3	0	
8	UST10000044	10768693	GAS MART	141 WEST ST CHARLES	95249	SAN ANDREAS	3	0	
9	T10000010124	10009042	Saint Mary's College of Califo...	1928 St. Marys Rd	94556	Moraga	7	5	
10	UST10000170	10007308	TOP GAS & FOOD	1522 RUMRILL BLVD	94806	SAN PABLO	3	0	
11	UST10000045	not in CE...	MEYERS BEACON	3208 HWY 50	96150	MEYERS	4	4	
12	UST10000286	not in CE...	SAHAKIAN PROPERTY	1289 N FIRST ST	93703	FRESNO	1	0	
13	UST10000278	not in CE...	LAS PALMAS TIENDITA	1304 W JENSEN AVE	93706	FRESNO	2	0	
14	UST10000296	10704046	PERFORMANCE 500	1506 VAN NESS AVE	93721	FRESNO	4	0	
15	UST10000287	not in CE...	SCHERR PROPERTY	2038 E CALIFORNIA ...	93706	FRESNO	2	0	
16	UST10000289	not in CE...	WHITESBRIDGE	204 w WHITESBRID...	93706	FRESNO	2	0	
17	UST10000292	10704208	VALLEY GAS	2430 E OLIVE AVE	93701	FRESNO	3	0	
18	UST10000294	10695706	DOYAL'S MARKET	25425 TRIMMER SP...	93657	PIEDRA	3	3	
19	UST10000348	not in CE...	ALAMOS	36010 S LASSEN AVE	93234	HURON	2	2	

Data Source Dashboard 1 Improperly Abandoned Tanks b... First Letter Sent Verbal Contact With Owners Init... Correspondence designation RIAT Facilities Funding Obtained Facilities per Jurisdiction Priority Facilities Sheet 10 Dashboard 2 Sheet 11



Data-Driven Decisions: Method-Of-Contact

Tableau - RAT_Map1_Brian

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Pages

Letters Sent (RAT dat...

Filters

YEAR(First Lett)

Status1

Marks

Circle

Color Size Label

Detail Tooltip

Columns

YEAR(Response fr...

Rows

Cers Id Address 2021 Corre Status1 ATTR(First Lett) ATTR(RUST Appli)

Sheet 11

Cers Id	Address	2021 Corre	Status1	First Lett	RUST Appli	Response from Violation Correspondence	
						Null	2021
10034287	1098 W 5TH ST	Initiate verbal contact	Null	1/5/2022	1/5/2022	●	
10036399	18509 VALLEY BLVD	Initiate Verbal Contact	Null	12/6/2021	Null	●	
10036597	3 HAVASU LAKE RD	Initiate Verbal Contact	Null	12/3/2021	12/3/2021	●	
10038184	33830 OUTER HWY 15	NONC Issued	Letters Issued	5/13/2021	12/13/2021	●	●
10038394	35487 NATIONAL TRAILS ..	NONC Issued	Letters Issued	5/13/2021	Null	●	
10039894	100 RICE MIDLAND ROAD	Initiate Verbal Contact	Null	10/12/2021	10/12/2021	●	
10040158	80505 HALLORAN SPRING	NONC Issued	Letters Issued	7/1/2021	9/23/2021	●	●
10042168	19324 NATIONAL TRAILS	CUPA Oversight	Letters Issued	6/4/2021	Null	●	
10042975	63851 HALLORAN SUMMI..	Initiate Verbal Contact	Null	9/22/2021	9/23/2021	●	
10045249	1501 IRWIN ROAD	NONC Issued	Letters Issued	6/10/2021	Null	●	
10045654	301 S J ST	NONC Issued	Letters Issued	6/10/2021	11/2/2021	●	●
10218859	6200 FAIR OAKS BLVD	CUPA Oversight	Letters Issued	7/1/2021	Null	●	
10232788	23822 HWY 178	NONC Issued	Letters Issued	4/15/2021	Null	●	
10234441	14934 HIGHWAY 178	Initiate Verbal Contact	Null	8/30/2021	8/30/2021	●	
10269829	3447 N PECK RD	NONC Issued	Letters Issued	6/10/2021	Null	●	
10279450	44451 SIERRA HWY	Initiate Verbal Contact	Null	1/5/2022	1/5/2022	●	
10291546	43859 LAKE HUGHES RD	NONC Issued	Letters Issued	6/4/2021	Null	●	
10296445	4500 W 116TH ST	Initiate Verbal Contact	Null	12/6/2021	12/6/2021	●	
10299541	22025 S NORWALK BLVD	NONC Issued	Letters Issued	7/1/2021	Null	●	
10302268	1101 W WASHINGTON BL..	NONC Issued	Letters Issued	6/10/2021	9/24/2021	●	●
10308742	16869 W SIERRA HWY	Initiate Verbal Contact	Null	1/7/2022	Null	●	
10309225	601 SOUTH PRAIRIE AVE	Initiate verbal contact	Null	1/4/2022	Null	●	
10463485	22890 TWIN HARTS DRI..	Initiate Verbal Contact	Null	9/27/2021	9/27/2021	●	
10607344	14491 RD 192	25289	Letters Issued	3/4/2021	5/5/2021	●	●
10706383	19485 HWY 36W	Initiate Verbal Contact	Null	1/10/2022	Null	●	
10707262	2070 S EL DORADO Street	NONC Issued	Letters Issued	6/24/2021	11/30/2021	●	●
10707676	512 3rd St	Initiate Verbal Contact	Null	10/7/2021	10/12/2021	●	
10707688	38883 YERMO RD	NONC Issued	Letters Issued	7/1/2021	Null	●	
10716304	41966 N 50TH ST WEST	Initiate Verbal Contact	Null	1/11/2022	1/11/2022	●	
10828411	SE Corner Hinkley Rd & Bl..	NONC Issued	Letters Issued	7/1/2021	Null	●	
10863754	204 N MAIN STREET	Initiate Verbal Contact	Null	9/30/2021	Null	●	
not in CERS	695 ATWATER BLVD	NONC Issued	Letters Issued	7/1/2021	Null	●	
	2038 E CALIFORNIA AVE	NONC Issued	Letters Issued	6/24/2021	Null	●	
	2501 NORTH SANTA FE A..	NONC Issued	Letters Issued	6/10/2021	Null	●	
	5610 N BIOLA AVE	NONC Issued	Letters Issued	8/10/2021	Null	●	
	7607 TIPPECANOE ST	NONC Issued	Letters Issued	6/10/2021	8/16/2021	●	●
	17164 CA ION BLVD	NONC Issued	Letters Issued	5/27/2021	Null	●	

Status1

- ☐ (All)
- ☒ Null
- ☐ CUPA contact LUST
- ☐ CUPA Oversight
- ☐ Facility in Complian...
- ☒ Letters Issued
- ☐ NFAR
- ☐ SWRCB Oversight
- ☐ UST(s) Removed
- ☐ Verified

Data Source Dashboard 1 Improperly Abandoned Tanks b... First Letter Sent Verbal Contact With Owners Init... Correspondence designation RIAT Facilities Funding Obtained Facilities per Jurisdiction Priority Facilities Dashboard 2 Sheet 11 Sheet 12

38 marks 38 rows by 2 columns

Taylor, Brian...

Program Data Sharing

- URL link
 - https://tableau.waterboards.ca.gov/t/WaterboardsPublic/views/RAT_Map1_Brian/Dashboard1?:showAppBanner=false&:display_count=n&:showVizHome=n&:origin=viz_share_link
- HTML embedded file in the Office of Enforcement's web page.
 - https://www.waterboards.ca.gov/water_issues/programs/enforcement/tank.html

Closing

- Business Intelligence Software
- Graphical and Spatial Visualization dashboards
- Data-Driven Decisions
- Web-based Reporting for Data Sharing

Foster Engagement With Data

Community / Civic Engagement

- Water Board Data Fair – March every other year
- Water Data Science Symposium – June/July every year*
- California Water Data Challenges – Every year (most recent trash and drinking water)
- Trash and other datathons

Workforce Engagement

- Data Innovation Project Request
- WB Data Community
- CalData
- Recruitment Fairs / College Embed

