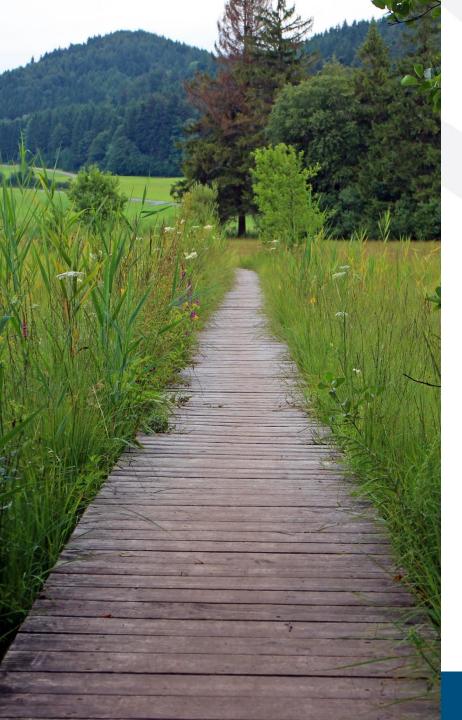
California's GeoTracker Database

An Exploration into the Legislation, Funding, and Partnerships that Made GeoTracker a Cleanup Database Powerhouse





Presentation Outline

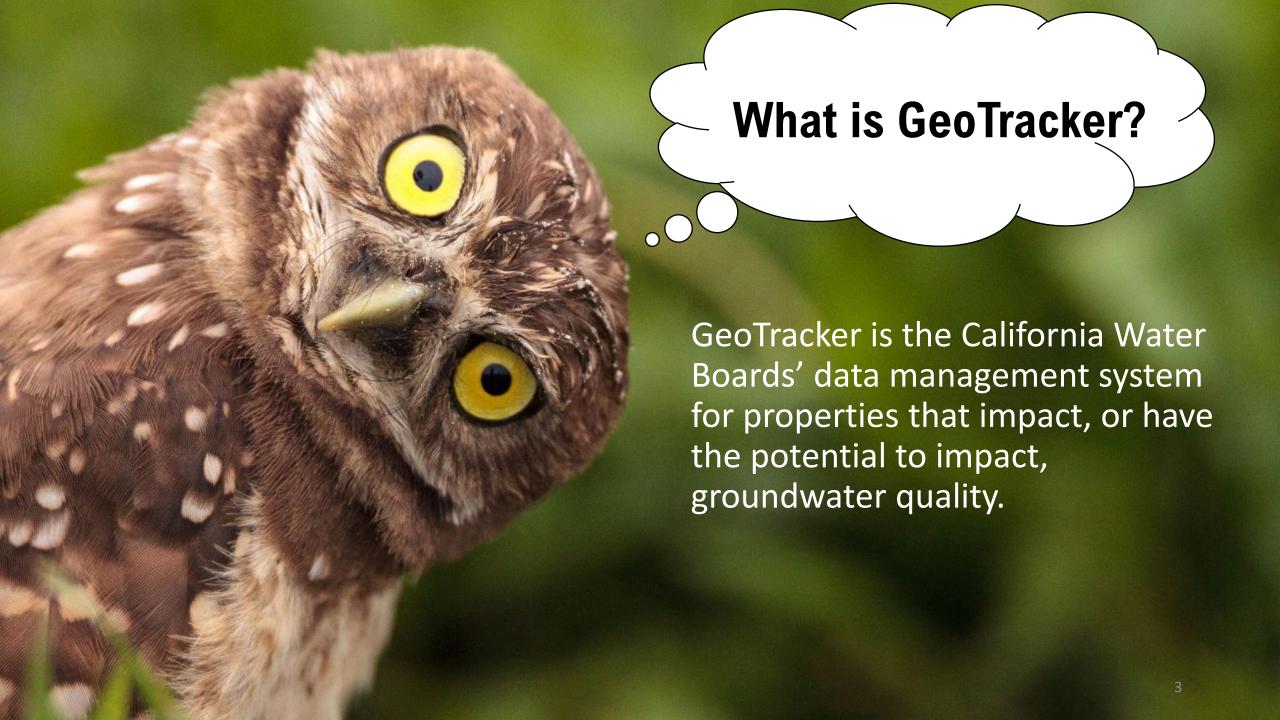
What is GeoTracker?

- Types of Data & Datasets
- What does GeoTracker do?
- Features
- Statistics

How Did We Get Here?

- Background
- Legislation & Regulations
- System Development
- Funding & Contracting
- Partners

Lessons Learned



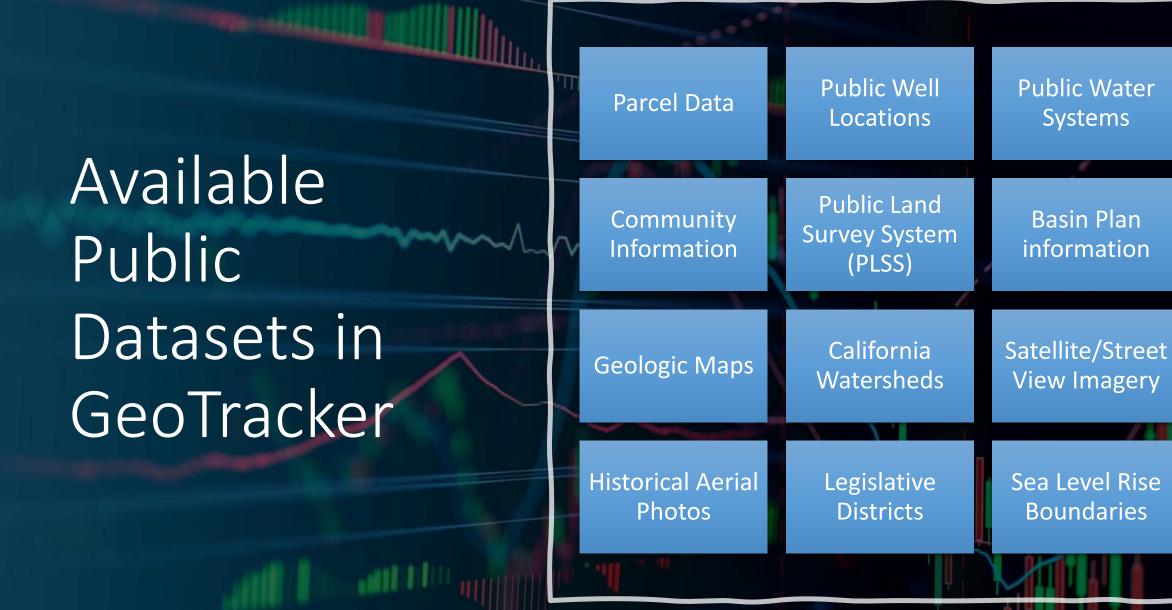
Types of Data GeoTracker Collects

Site & Regulatory Information

- Site & Facility Records
- Compliance Reports
- Project Reports (PDF)
- Project Management Data
- Annual Reporting Forms
- UST Removal Information
- Abandoned & Single-Walled UST Information

Electronic Site Data

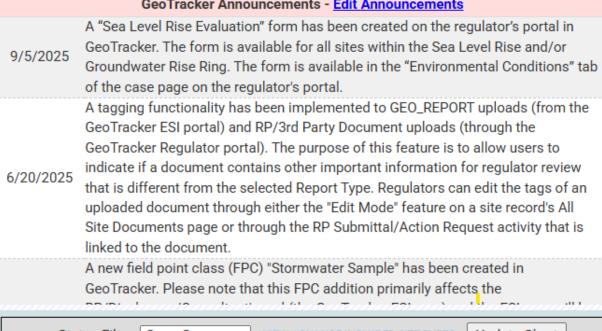
- Laboratory Analytical Data (EDFs)
- Locational Data
- Well Data
- Boring Logs
- Depth-to-Groundwater Data
- Shape Files / Geo-referenced Images

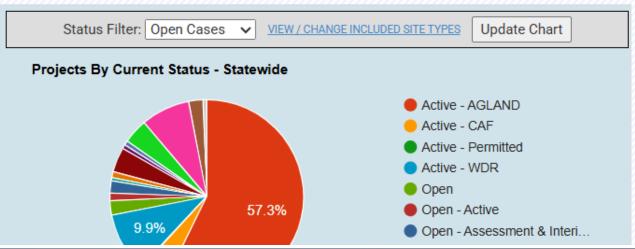




What does GeoTracker do?

- Program/project management
- Public record transparency and accessibility
- Geospatial analysis or viewing
- Compliance reporting and tracking.
- Imports data from a variety of data repositories





Recently Accessed Projects						
PROJECT NAME	ADDRESS	CITY				
TIRES 4 LESS	77 BROADWAY	CHULA VISTA				
GALLIONS CASTAIC CORNER	31515 Ridge Route Rd	CASTAIC				
TWENTYNINE PALMS MCAGCC - IR SITE UST 10 (BUILDING 1077)	INTERSECTION OF DEL VALLE DR AND AGATE RD	TWENTYNINE PALMS				
CORONA NAVWPNCENDET - FORMER USTS T-6, T-7, T-8 AND T-9	5th Street	NORCO				
RALPHS TRIANGLE SERVICE	36374 LASSEN S	HURON				

Closure Denial Reviews

	ASSIGN	ED TO ME	UNAS	SIGNED	UNRESOLVED		
DAYS SINCE DENIAL	CUF	NON-CUF	CUF	NON-CUF	<u>CUF</u>	NON-CUF	
0-90	0	<u>0</u>	2	1	<u>3</u>	<u>4</u>	
121-150	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	1	
180+	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	1	

Regulators Portal



STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

TOOLS

- 🎎 Upload EDD
- ✓ Check EDD
- Q VVL Search Tool
- Edit Field Points
- Other Tools
- **\$** Funding Programs
- Update eNOI Forms
 Edit Waste Mgt. Units
- + Add Program
- ? Guides / Resources
- Contact Us
- Account Information
- C→ Logout

IRRIGATED LANDS REGULATORY PROGRAM OPERATIONS					
3 RECORDS FOU	IND				
		AW # Operation Name	Mailing Address Mailing City Search		
AW #	OPERATION NAME	MAILING ADDRESS	MAILING CITY		
	ACME FARMS	73-720 FRED WARING DR. STE. 100	PALM DESERT		
AW9997	<u>TEST</u>	895 AEROVISTA PLACE, SUITE 101	SAN LUIS OBISPO		
	TEST_ACCOUNT	1515 CLAY STREET; SUITE 1400	OAKLAND		

VIEW SUBMITTALS

- By Facility
- All Submittals (10)
- Pending Submittals (0)
- Denied Submittals (1)
- Received Submittals (9

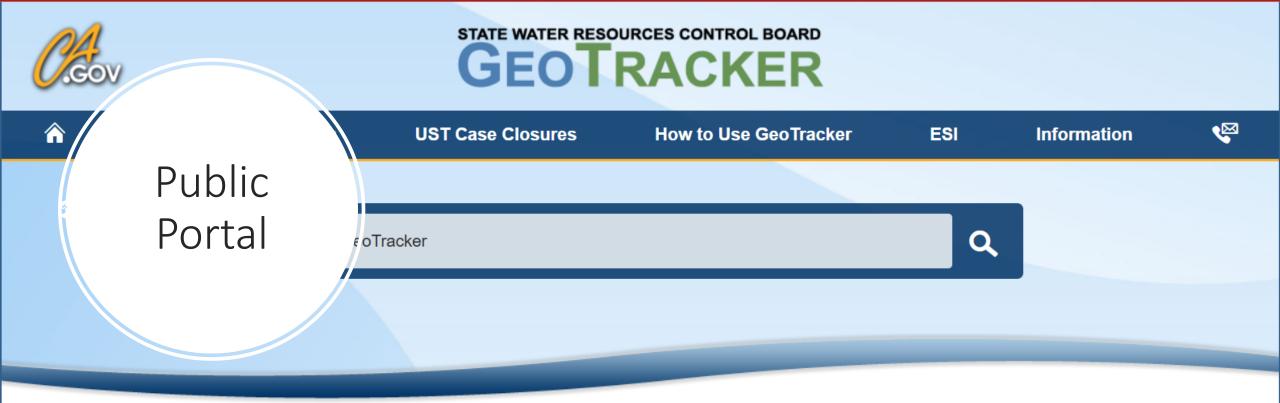
Electronic Submittal of Information (ESI) Portal

AND DISPOSAL

eshold Exceedences

of Detections

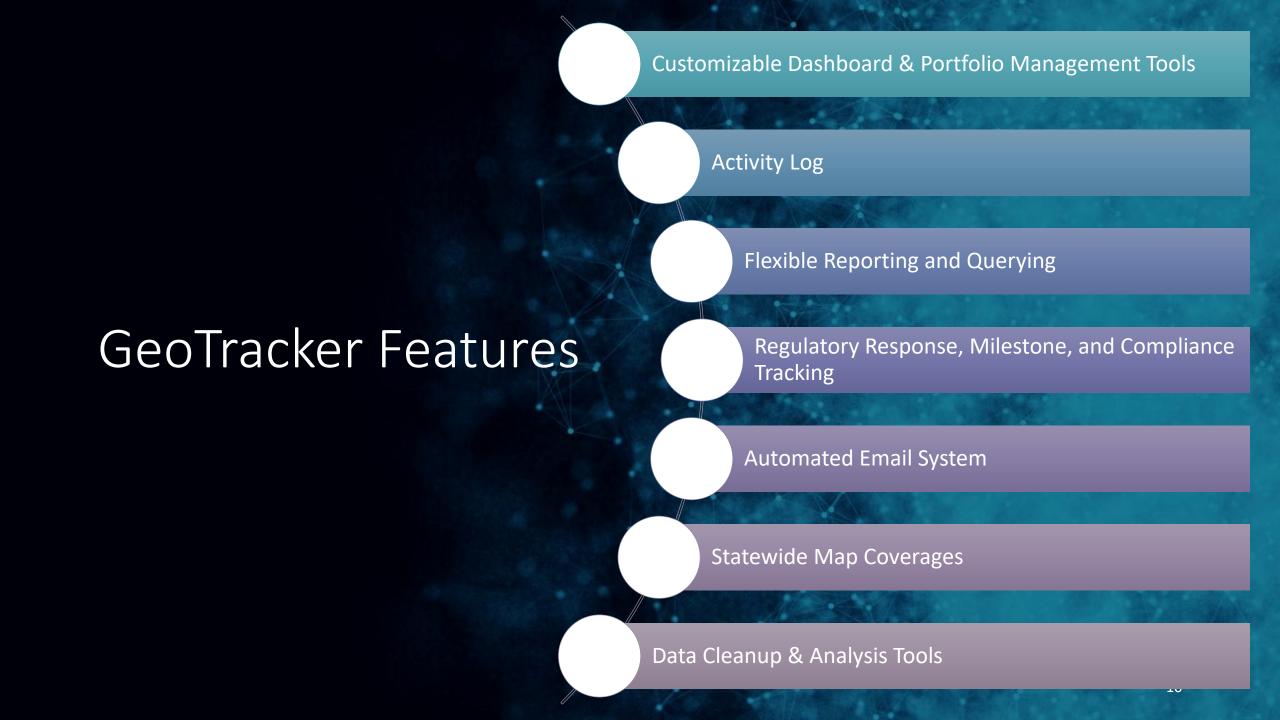
Above Threshold



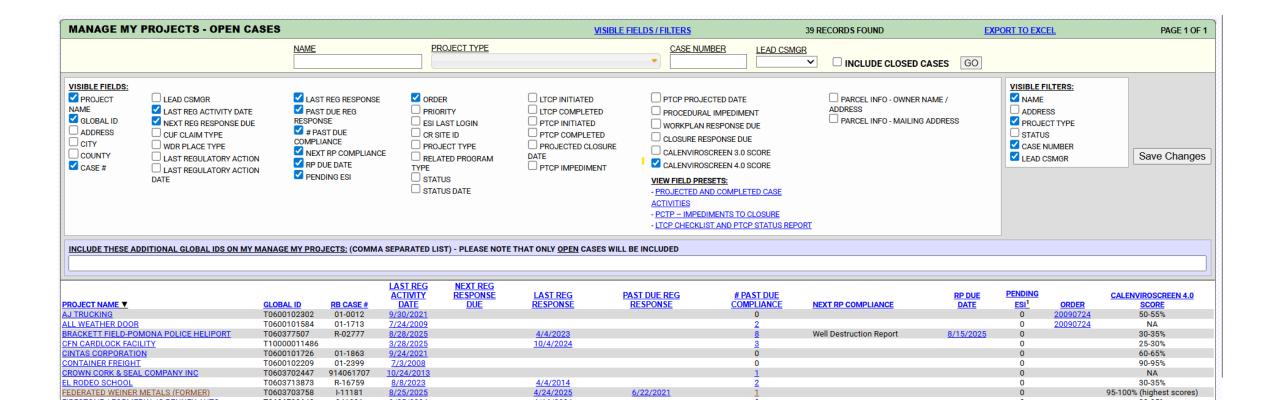
GeoTracker

GeoTracker is the Water Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. GeoTracker contains records for sites that require cleanup, such as Leaking Underground Storage Tank (LUST) Sites, Department of Defense Sites, and Cleanup Program Sites. GeoTracker also contains records for various unregulated projects as well as permitted facilities including: Irrigated Lands, Oil and Gas production, operating Permitted USTs, and Land Disposal Sites.

GeoTracker portals retrieve records and view integrated data sets from multiple State Water Board programs and other agencies. Users can view these data through a Google Maps GIS interface.



Project Management Tools



ADVANCED CASE DEPORTING TO	201	<u> </u>		DECIONAL BOADD BY	OUNDARY CTAD	T DATE:	7/1/2025	END DATE:	9/19/2025			DUN	REPORT
ADVANCED CASE REPORTING TO	ADVANCED CASE REPORTING TOOL REGIONAL BOARD BOUNDARY V			JUNDARY V	DATE	//1/2025	END DATE:	3/19/2025			KUN R	REPORT	
SITE TYPE(S):													
Abandoned UST Aquifer Exemption	Cleanup Pror	gram Site 🔲 I	Health Protection	n Zone Sampling 🔽 LUST Clea	anup Site 🔲 Land Disposal Site 🗀 Military Cleanup Site	e Militar	y Privatized Site	Military UST Pr	ivatized Site	Military UST Site	e Non-Cas	e Information	Other Oil
and Gas Projects Produced Water Ponds Projects - Property Owner Sampling	Project C	Sampling Poin	it - Private	Sampling Point - Public Sin	ngle-Walled UST Underground Injection Control (UIC)	☐ Well Stim	ulation Project - Ex	clusion Well	Stimulation Proj	ect - Groundwater	Monitoring Plan	☐ Well Stim	nulation
				* NOTE: "ACTIV	VE" CASES DO NOT INCLUDE CASES WITH A STATUS OF "OP	PEN - INACTIV	/E"						
1		1		1	CASES CHANGED FROM "OPEN - SITE ASSESSMENT" TO	<u>J</u>	CASES	CASES RE-	- T		i T		
.[ACTIVE*	<u>INACTIVE</u>	CLOSED	CASES WITH A STATUS OF	A STATUS OF "OPEN - REMEDIATION" OR "OPEN -	NEW RELEAS	ASES CLOSED	<u>OPENED</u>	ACTIVE*	ELIGIBLE FOR	<u>INACTIVE</u>	CLOSED	TOTAL
	CASES AT	CASES AT	CASES AT	"OPEN - REMEDIATION" AT	ASSESSMENT & INTERIM REMEDIAL ACTION" AT SOME	DURING		DURING	CASES AT		CASES AT END	CASES AT	CASES AT
	START DATE ¹	START DATE ²			TIME DURING PERIOD ⁵	PERIOD ⁶	6 PERIOD ⁷	PERIOD ⁸	END DATE ⁹	END DATE ¹⁰	DATE ¹¹		
NORTH COAST RWQCB (REGION 1)	<u>85</u>	_	<u>2224</u>	_	<u>,</u>	1	0	2 0	<u>0</u> <u>83</u>	_	1/	2226	
SAN FRANCISCO BAY RWQCB (REGION 2)	<u>350</u>	<u>0</u>	<u>10498</u>	<u>39</u>	<u> </u>	1	1	<u>8</u>	<u>0</u> <u>343</u>	<u>47</u>	<u>0</u>	<u>10506</u>	
CENTRAL COAST RWQCB (REGION 3)	<u>26</u>	_	<u>1978</u>	_	<u>,</u>	<u> </u>	<u>0</u>	0 0	<u>26</u>	<u>6</u>	<u>0</u>	<u>1978</u>	
LOS ANGELES RWQCB (REGION 4)	<u>322</u>	1	<u>8470</u>	<u>168</u>	<u>, </u>	1	1 7	<u>26</u> <u>C</u>	<u>297</u>	<u>26</u>		<u>8496</u>	<u>8794</u>
CENTRAL VALLEY RWQCB (REGION 5F)	<u>51</u>	<u>0</u>	<u>2626</u>	<u>10</u>	Ç	<u>J</u>	<u>0</u>	<u>2</u>	<u>49</u>	9	<u>0</u>	<u>2628</u>	<u>2677</u>
CENTRAL VALLEY RWQCB (REGION 5R)	<u>21</u>	<u>0</u>	932	<u>6</u>	<u>, </u>	<u>J</u>	<u>0</u>	1 9	<u>1</u> <u>20</u>	1	<u>0</u>	<u>933</u>	<u>953</u>
CENTRAL VALLEY RWQCB (REGION 5S)	<u>144</u>	<u>0</u>	<u>4865</u>	<u>28</u>	<u>s</u>	1	<u>0</u>	<u>5</u> 1	<u>1 140</u>	<u>20</u>	<u>0</u> /	<u>4869</u>	5009
LAHONTAN RWQCB (REGION 6T)	<u>36</u>	<u>0</u> /	<u>527</u>	<u>1</u>	<u>,</u>	<u>)</u>	<u>0</u>	2 9	<u>1</u> <u>34</u>	<u>7</u>	<u>o</u> '	<u>529</u>	<u>563</u>
LAHONTAN RWQCB (REGION 6V)	<u>5</u>	<u>0</u>	<u>540</u>	<u>0</u>	<u>r</u>	<u>)</u>	<u>0</u>	<u>0</u> <u>C</u>	<u>5</u>	<u>0</u>	<u>0</u> /	<u>540</u>	<u>545</u>
COLORADO RIVER BASIN RWQCB (REGION 7)	<u>46</u>	<u>0</u> /	<u>833</u>	<u>21</u>	. 2	2	<u>0</u>	1 9	<u>45</u>	<u>6</u>	<u>o</u> '	<u>834</u>	<u>879</u>
SANTA ANA RWQCB (REGION 8)	<u>168</u>	<u>0</u>	<u>4041</u>	<u>42</u>	<u>.</u>	<u>)</u>	<u>0</u>	<u>8</u>	<u>0</u> <u>162</u>	<u>27</u>	<u>0</u>	<u>4049</u>	4211
SAN DIEGO RWQCB (REGION 9)	<u>82</u>	<u>3</u>	<u>3397</u>	<u>13</u>	<u>,</u>	<u>J</u>	<u>0</u>	1 9	<u>/</u> <u>81</u>	<u>19</u>	<u>3</u>	<u>3398</u>	<u>3482</u>
NO REGIONAL BOARD SPECIFIED	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u> </u>	<u>)</u>	<u>0</u>	0 0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	1
TOTAL	<u>1336</u>	<u>5</u>	<u>40931</u>	<u>354</u>	4		2	<u>i6</u> 1	<u>1 1285</u>	<u>174</u>	<u>5</u>	<u>40986</u>	<u>42277</u>

Customizable Reports

ACTIONS

OTHER REGULATORY

Correspondence / Assistance / Other

2/7/2023

2/7/2023

Technical

OVERSIGHT AGENCIES SAN DIEGO RWQCB (REGION 9) (LEAD) - CASE #: 9UT2183 - LALITHA THOTAKURA SAN DIEGO COUNTY - CASE #: H26693-001

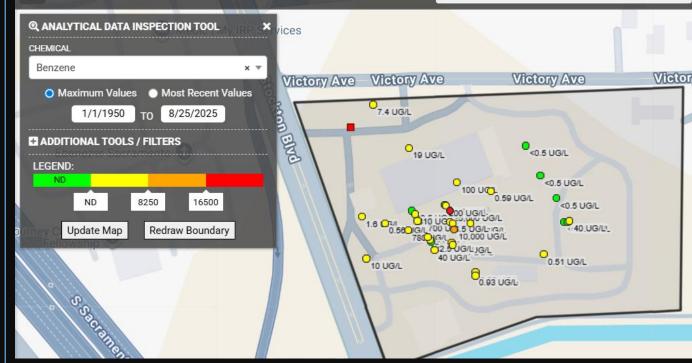
■ Activities Report ② Documents / Data Environmental Conditions ■ Case Reviews ▼ Admin 🔻 Funding THIS PROJECT WAS LAST MODIFIED BY BILL BRASHER ON 7/9/2025 2:48:14 PM - HISTORY ▼ (Go) **ACTIVITIES REPORT** * INDICATES A REVISED DUE DATE **ACTIVITY TYPE FILTER:** Show All Activities ENTER NEW REGULATORY ACTION ENTER NEW RP SUBMITTAL / ACTION REQUEST (INFO) / SCHEDULE RECURRING Edit Mode RECEIVED / ISSUE DATE RESPONSE DATE TITLE / DESCRIPTION / COMMENTS **ACTIVITY ACTIVITY TYPE** ACTION DATE Other Report / 7/23/2025 RE: Evidence of Petroleum Hydrocarbon Product Degradation RESPONSE REQUESTED -7/23/2025 OTHER **Document** OTHER REGULATORY **Email** 5/29/2025 5/29/2025 Product Gauging ACTIONS Correspondence OTHER REGULATORY **Technical** 5/8/2025 5/8/2025 Additional Response to Second UST Release ACTIONS Correspondence / Assistance / Other OTHER REGULATORY Staff Letter 4/29/2025 4/29/2025 San Diego Water Board Response to Closure ACTIONS RESPONSE REQUESTED - Request for Closure - 11/13/2024 11/13/2024 4/22/2025 Request for Closure Under the California Low-Threat Closure Policy Regulator Responded OTHER Telephone conversation Craig Smith EA Inc. 619-291-3640: Discussed need for 2nd release notice to address delineation and recovery of LNAPL. According to Craig Smith EA Inc. the OTHER REGULATORY Verbal 6/13/2023 6/13/2023 Communication UST removal in 1998 (Martin Ortega) did not receive a Notice of Responsibility for an Unauthorized Release of petroleum from a UST. ACTIONS Email to V.Archer SD County HMD re investigation of in-ground USTs 77 Broadway Chula Vista T0607300953 OTHER REGULATORY 4/18/2023 Email 4/18/2023 Correspondence ACTIONS County of San Diego LOP UST files dated 2008 and 1999, 149 pages, 50 mb OTHER REGULATORY Technical 2/7/2023 2/7/2023 ACTIONS Correspondence / Assistance / Other OTHER REGULATORY **Technical** 2/7/2023 2/7/2023 County of San Diego LOP UST files from 2007 87 pages 37mb ACTIONS Correspondence / Assistance / Other OTHER REGULATORY Technical 2/7/2023 2/7/2023 County of San Diego LOP UST Files from 2008, 196 pages, 71 mb

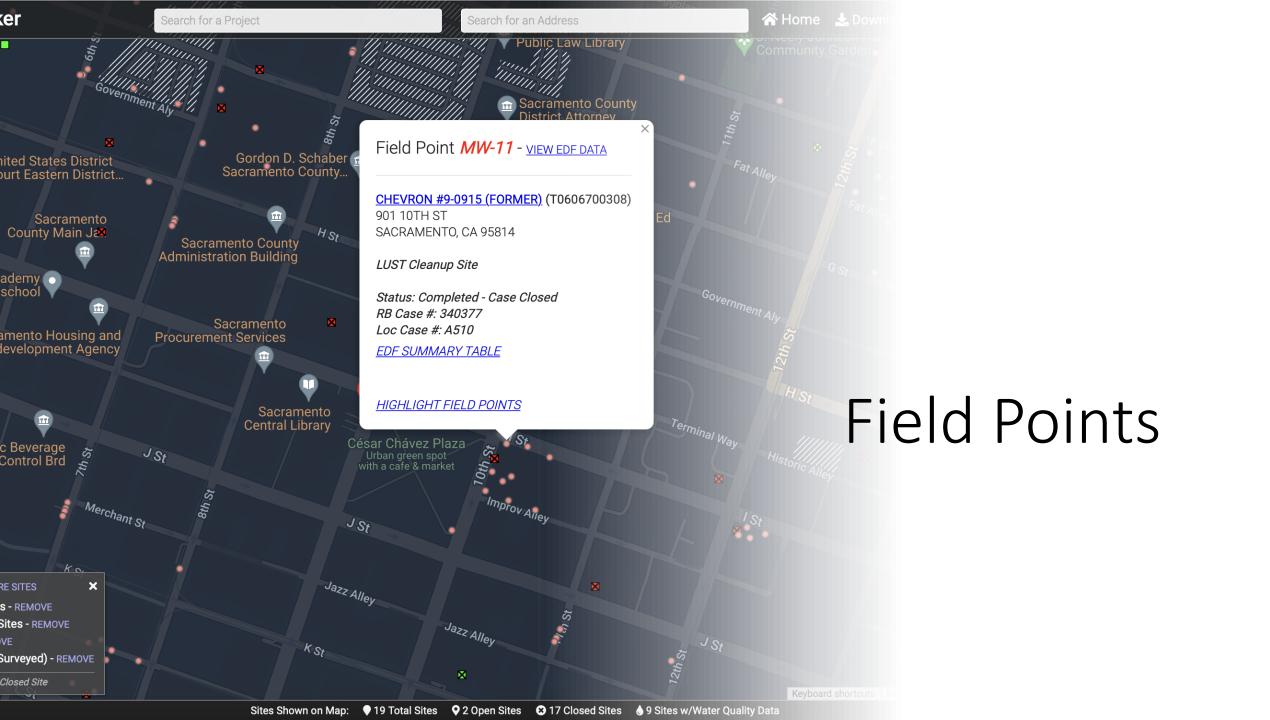
Site Pages & Activity Logs

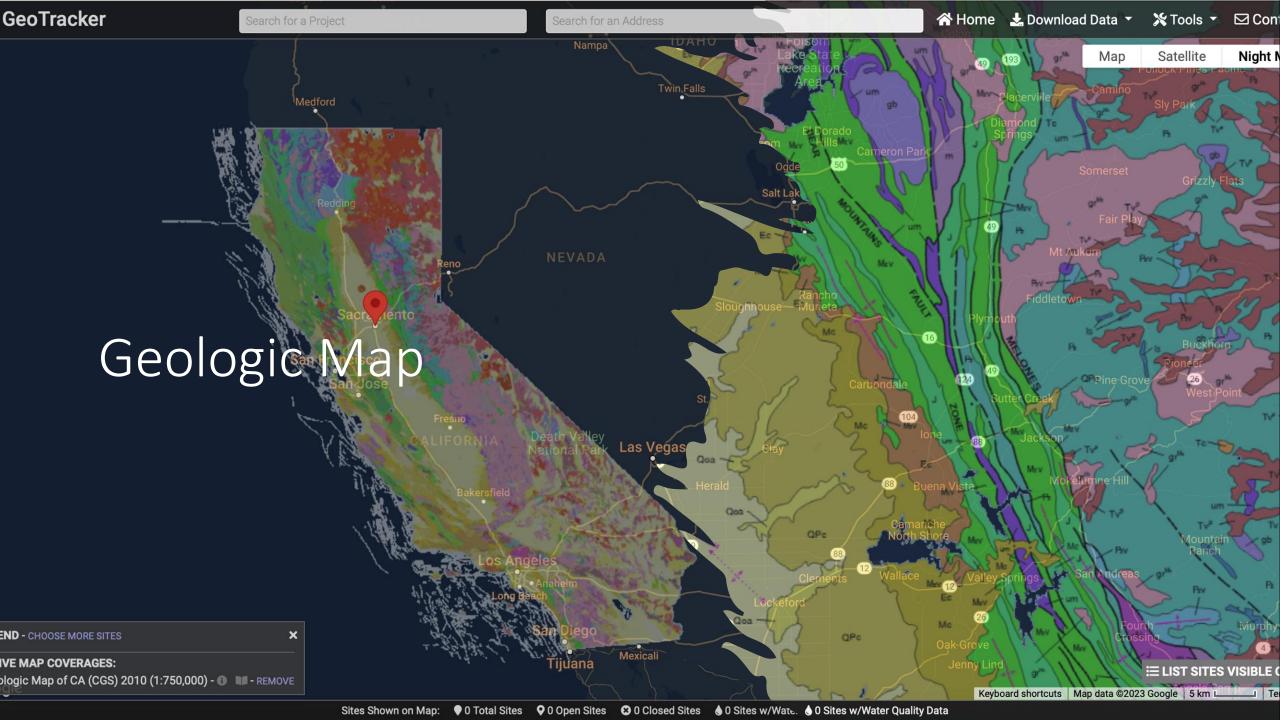
County of San Diego LOP UST files from 2009, 194 pages, 63 mb

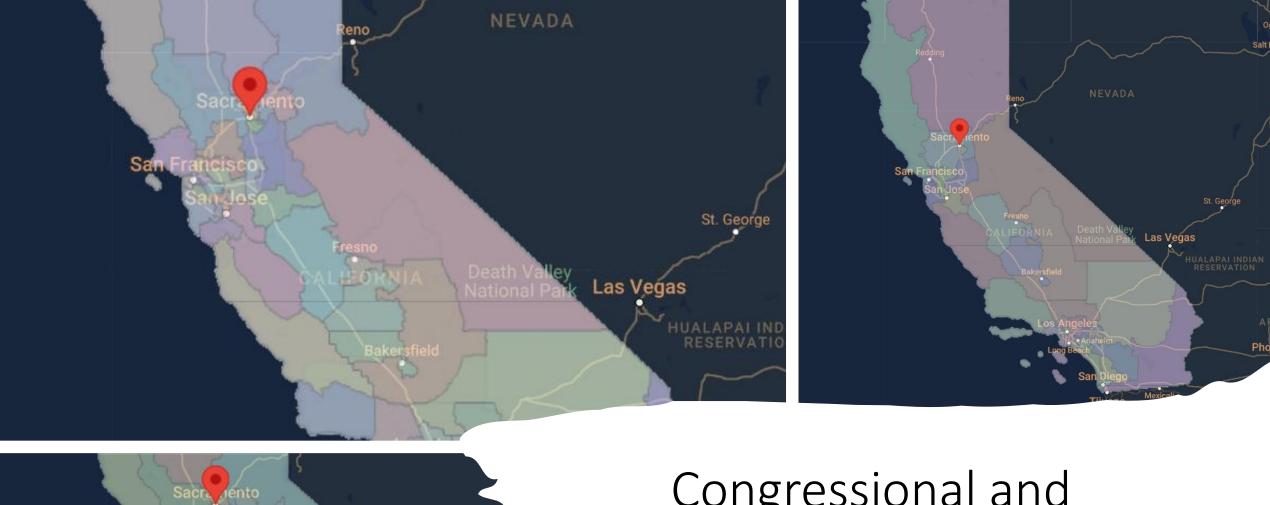


Data Visualization





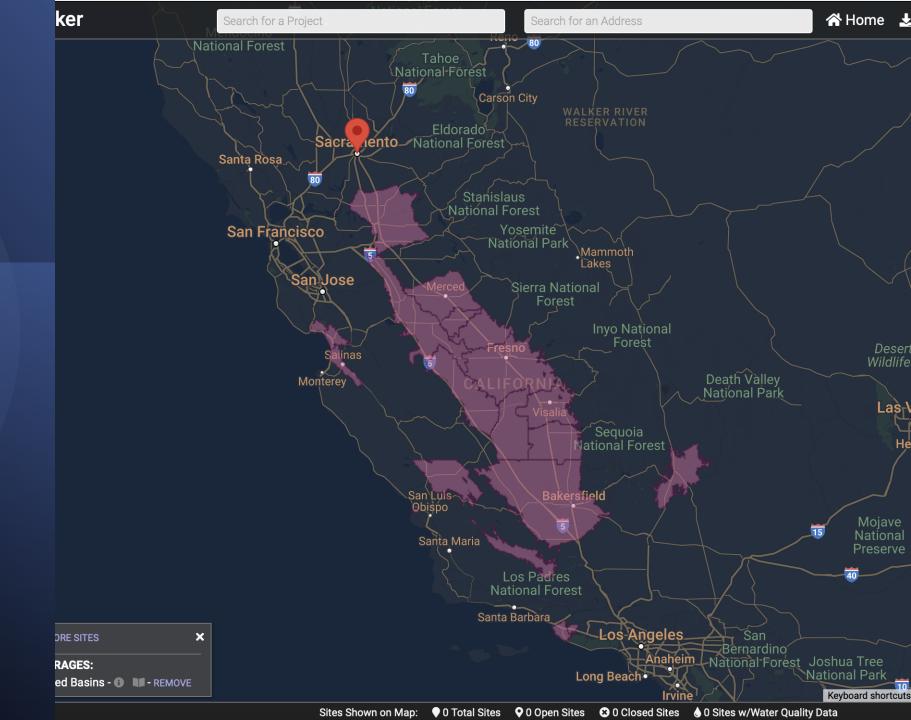


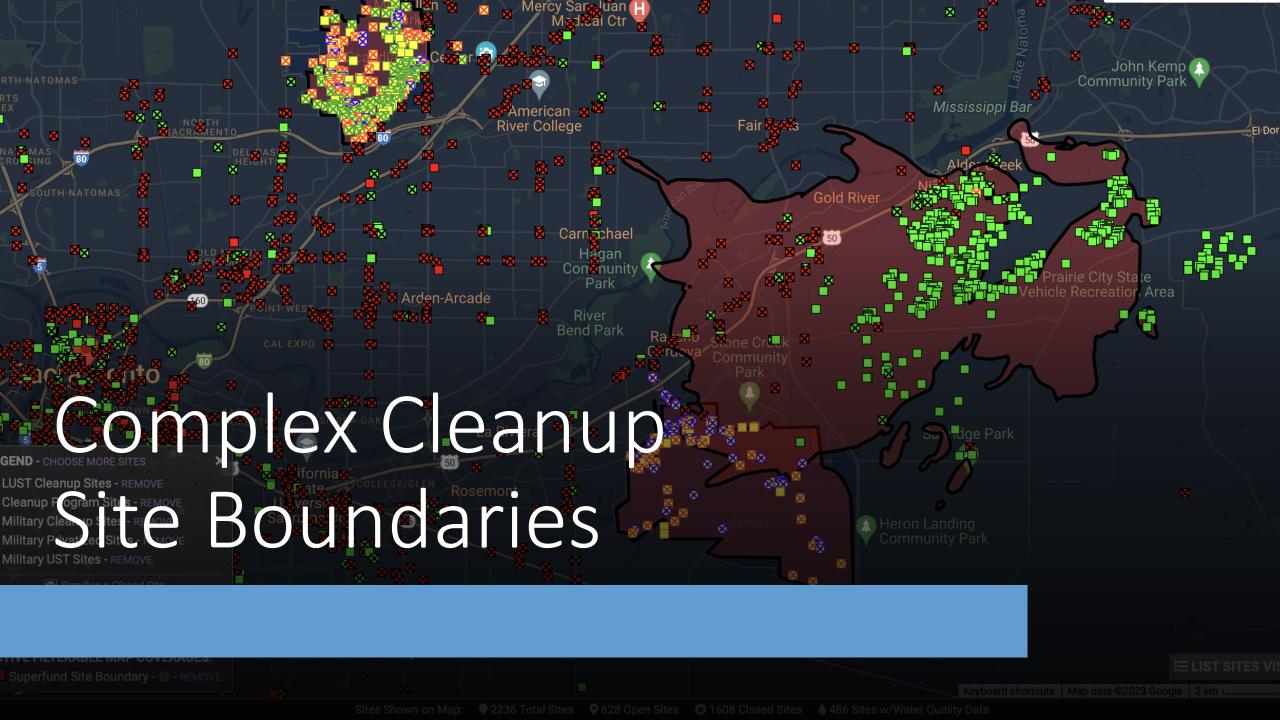


San Francisco
San Jose
St. Georg
Fresno
CALIFORNIA
Death Valley
National Park
Las Vegas
HUA
RESERV

Congressional and State Legislative Districts

Critically Overdrafted Basins





Site Data

- 66,900
 Contaminated
 Sites
- 925,000 Field Points
- 230,000
 Geolocated
 Field Points

Records

- 2.6 Million
 Documents
- 2.3 Million ESI Submittals

Users

- 15,500
 Electronic
 Submittal of
 Information
 (ESI) Users
- 2,800 Regulator Users
- 10 Million
 Public
 Website Hits
 Per Month

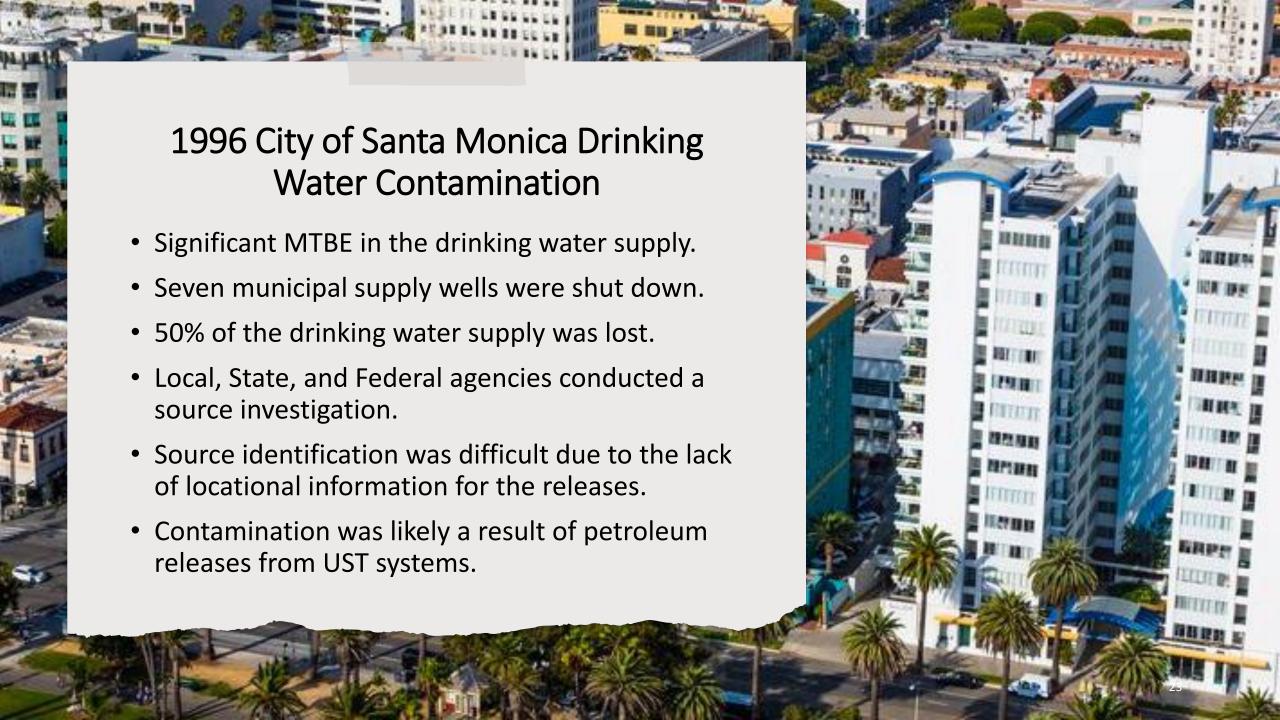
GeoTracker Statistics



Before GeoTracker

- Leaking Underground Storage Tank Information Systems (LUSTIS)
- Data Storage System
- Uploaded by floppy disk
- No Geospatial Component





The Start of GeoTracker

- Legislature acknowledged that MTBE could cause significant adverse impacts to current and future beneficial uses of ground and surface water if not managed properly.
- In 1997, legislation was introduced to determine feasibility of creating a statewide GIS system to assess vulnerability of public drinking water sources.
- Authorized Water Board to spend up to \$400,000 to fund a GIS mapping system



Legislation & Regulations

Establishment of a statewide GIS mapping tool.

Requires responsible parties submit soil, vapor, and water data be submitted electronically to GeoTracker.

1997 2001 2004 2021

Requires electronic groundwater quality data be submitted in a format compatible with GeoTracker.

Requires local agencies overseeing site cleanup to keep accurate and current records in GeoTracker associated.





1997

Pilot test of the proposed system was started.



1999

Expansion of system following pilot test recommended.



2000

Expansion approved and implemented.



2002

Special Project Report finalized and GeoTracker Phase II approved.



2003

GeoTracker Phase II implemented.

Barry Keene Underground Storage Tank Trust Fund Act of 1989

- CA Health & Safety Code (H&SC),
 Division 20, Chapter 6.75
- Created CA UST Cleanup Fund
- Established fees on owner/operators
- Funds Cleanup & Oversight



Project Task	Project Cost (2003 USD)	Project Cost with Inflation (2025 USD)*
Project Administration	\$172,700	\$307,929
Project Implementation	\$494,300	\$881,350
Phase I – EDF Development	\$146,625	\$261,436
Data Cleanup	\$495,900	\$884,203
Phase II Implementation	\$495,000	\$882,598
Phase II Project Overisght	\$30,000	\$53,491
TOTAL PROJECT COST:	\$1,834,525	\$3,271,007

^{*}U.S. Bureau of Labor Statistics CPI Inflation Calculator, January 2003 to August 2025

Initial Project Costs

Funding Today

- \$800,000/year SaaS Contract
- 100% Funded by Fee-Based Programs.
- 60% Funded by the UST Cleanup Fund.
- Exploring alternative funding sources.
- Ocean Protection Council-Funded Contractor Support.



GeoTracker Partners

- Lawrence Livermore National Laboratory
- EcoInteractive, Inc.
- GeoTracker Users







Thank You!!



Dayna Cordano
Senior Engineering Geologist

Dayna.Cordano@waterboards.ca.gov

GeoTracker@waterboards.ca.gov

GeoTracker Public Page
https://geotracker.waterboards.ca.gov