



# **CALIFORNIA UNDERGROUND STORAGE TANK (UST) LEAK PREVENTION**

## **JANUARY – JUNE 2017 SEMIANNUAL REPORT**

Owners, operators and Unified Program Agencies (UPAs) have reported Underground Storage Tank (UST) facility and inspection information through the California Environmental Reporting System (CERS) since January 2013.

This report summarizes the status of issues important to the California UST Leak Prevention program and is based on information extracted from CERS, the California GeoTracker database, and internal State Water Resources Control Board (State Water Board) reports. Unless otherwise noted, the events and activities (e.g., inspections, violations, reporting of releases) presented here occurred between January and June of 2017. Data sources were collected in October 2017, acknowledging that it can sometimes take up to 90 days for data display in CERS or GeoTracker.

This report was prepared as part of Cooperative Agreement L99T11601 between the U.S. Environmental Protection Agency (USEPA) Region 9 and the State Water Board.

### Statewide UST Numbers \*

Number of USTs	34,243
Number of UST Facilities	13,896
Storage Capacity (gal)	428,012,259

\* Statewide number of USTs and storage capacity are underreported here (1,938 UST facilities in CERS lack tank-specific information)

Use / Contents	USTs	Capacity (gal)
Motor Vehicle, Gasoline	22,236	262,394,947
Motor Vehicle, Diesel	7,331	74,257,605
Generator, Diesel	1,851	15,891,825
Waste Oil	965	947,497
Jet Fuel or Aviation Gas	267	61,635,239
Other	1,631	12,885,405

### CERS Implementation (pg. 3)

Complete and accurate UST data in CERS enables California to more effectively manage its UST Leak Prevention program. It is crucial that the State and USEPA can rely on CERS data to determine compliance with State and Federal law, as well as make important program decisions. When an UPA believes the data in CERS is complete and accurate, the UPA can request a data quality review. The State Water Board can then approve paperless reporting of federally required information via CERS. Otherwise, the State and USEPA rely on UPA spreadsheets that lack detail and cannot be verified. CERS implementation also improves access to previously unshared information (e.g., Priority Violations, New Releases, Single-Walled USTs).

% Facilities in CERS	97.5%
% Facilities with an Inspection Record	98.5%
UPAs Approved for Paperless Reporting	20/91

### Priority Violations & Return to Compliance (RTC) (pg. 4-5)

Inspection reports maintained at UPA offices were previously the only source of UST violation information. UPAs now report both violations and RTC dates to CERS, making it simpler to identify statewide trends. Of the 91 violations currently applicable statewide, 47 priority violations were identified for this report. These 47 priority violations include all 33 violations that result in a facility not meeting the definition of in Significant Operational Compliance (SOC), plus 14 additional violations of high interest to USEPA and the State Water Board.

Routine Inspections	7,138
Priority Violations	7,007
Facilities with Priority Violations	2,907
Facilities with Priority Violations (All RTC)	1,530

### New Releases (pg. 6)

Minimizing releases to the environment is an important measure of the UST Leak Prevention program's success. California manages this data in GeoTracker, with each release tied to a corresponding leaking UST (LUST) cleanup case. When releases occur, responsible parties or UPAs alert one of the nine Regional Water Quality Control Boards, often via an Unauthorized Release Form (URF). Newly reported releases may have happened long ago, prior to current UST regulations, so it's helpful to note which releases occur from operating UST facilities.

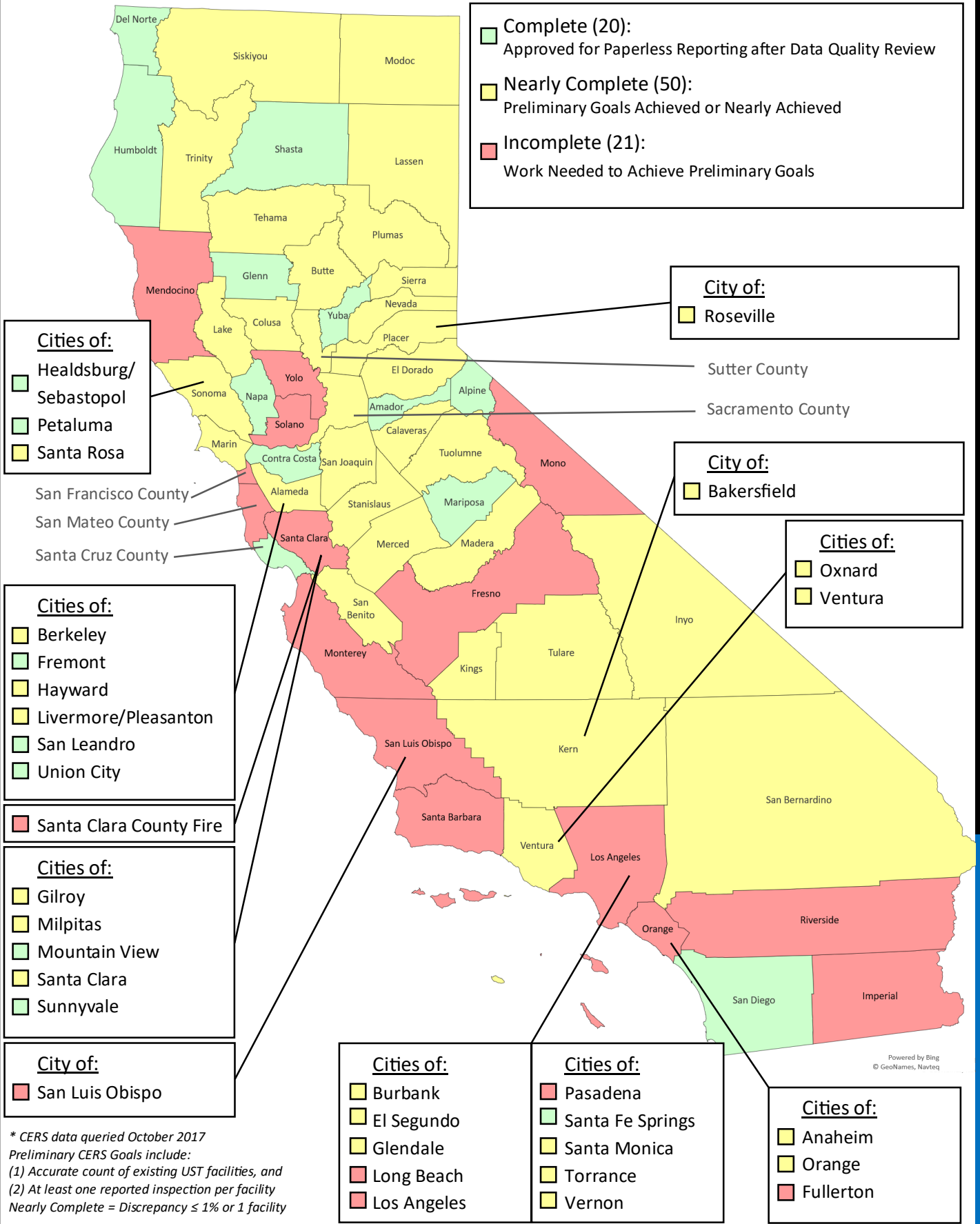
Releases Reported (Total)	26
Releases Reported (Operating Facilities)	10

### Single-Walled USTs (pg. 7-9)

California law requires the permanent closure of all single-walled (SW) UST tanks and piping by December 31, 2025. Encouraging owners to remove and replace SW tanks and piping in advance will prevent contractor shortages, unmanageable permitting workloads and UST abandonment.

Number of SW USTs (tanks or piping)	3,166
Facilities with SW USTs (tanks or piping)	1,286
% of UST Systems (SW)	9.2%
% of UST Facilities (SW)	9.3%
SW UST Facilities with unresolved priority violation(s) cited in past 18 months	189

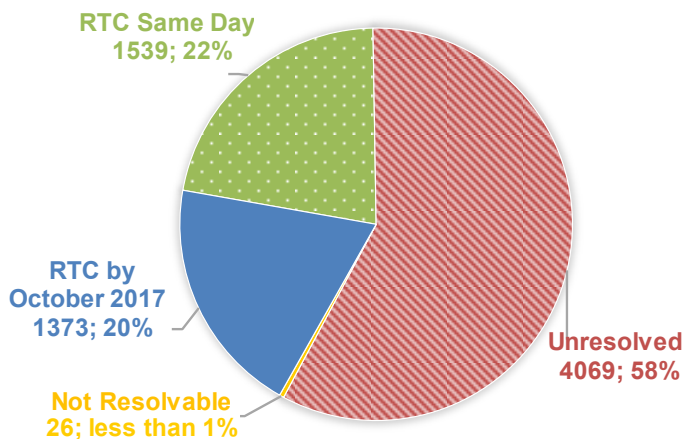
# CERS Implementation by Unified Program Agency (UPA)



\* CERS data queried October 2017  
 Preliminary CERS Goals include:  
 (1) Accurate count of existing UST facilities, and  
 (2) At least one reported inspection per facility  
 Nearly Complete = Discrepancy ≤ 1% or 1 facility

## UST Violations and Return to Compliance (RTC)

### 7,007 Priority Violations Cited



CERS groups currently applicable UST violations into 91 codes. Of those, 47 priority violations were identified and grouped into five categories for this report. See Appendix B for a full list.

Between January and June 2017, UPAs cited one or more priority violations at 42% (2,907 of 6,952) of all UST facilities inspected. By October 2017, 53% of these facilities (1,530 of 2,907) had returned to compliance.

Number of Facilities with a Routine Inspection	6,952
Number of Additional Routine Inspections reported in 6 month period	186
Number of Facilities with Priority Violations	2,907
Average Time to RTC*	45 days

\*Not including RTC at time of inspection (same day RTC)

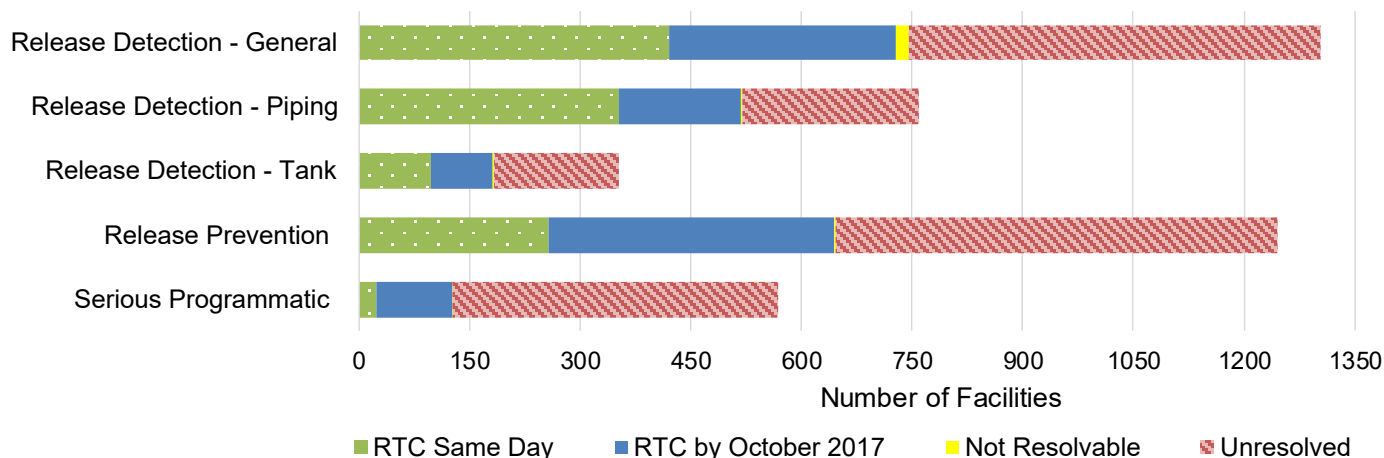
### Three Most Common Violations (Number of UPAs Citing Violation)

Violation Description	Violation Library #	Violation Subgroup	# UPAs Citing Violation	Total # Citations	% RTC by October 2017
Line Leak Detector (LLD) for Pressurized Piping Not Meeting Monitoring Requirements	2030025	Release Detection - Piping	59	525	62%
Spill Bucket Not Meeting Regulatory Requirements	2060020	Release Prevention	59	478	73%
Improper Installation, Calibration, Operation or Maintenance of Monitoring Equipment	2030043	Release Detection - General	56	438	54%

### Three Most Common Violations (Total Number of Citations)

Violation Description	Violation Library #	Violation Subgroup	Total # Citations	# UPAs Citing Violation	% RTC by October 2017
Failure to Maintain Secondary Containment	2030047	Release Prevention	831	49	23%
Failure to Maintain Records of Repairs, Lining and Upgrades	2010008	Release Detection - General	598	28	19%
Failure to Obtain an Operating Permit	2030021	Serious Programmatic	554	37	22%

### Priority Violation Categories & RTC Status



**Priority UST Violations and Return to Compliance (RTC), January - June 2017**

UPA	# Routine Inspections	# Priority Violations	# Facilities w Priority Violations	Facilities w Priority Violations (%RTC by Oct 2017)	# Facilities w Enforcement Initiated	Average # Days Until RTC
Alameda County Environmental Health	128	201	86	41%	0	50
Amador County Environmental Health	9	3	2	50%	0	69
Anaheim City Fire Department	72	37	26	81%	0	56
Bakersfield City Fire Department	69	54	32	75%	4	66
Berkeley City Toxics Management Division	14	4	3	67%	0	71
Burbank Fire Department	31	9	7	71%	1	84
Butte County Environmental Health	43	35	23	70%	0	66
Calaveras County Environmental Health	15	10	6	83%	0	19
Colusa County Health and Human Services	15	8	6	33%	0	76
Contra Costa County Health Services Department	230	95	73	89%	4	55
El Dorado County Environmental Management	38	52	24	92%	2	26
El Segundo City Fire Department	12	5	2	0%	0	N/A
Fresno County Department of Public Health	239	115	84	35%	0	52
Gilroy City Fire Department	24	3	3	33%	0	N/A
Glendale City Fire Department	28	22	11	27%	0	10
Glenn County Air Pollution Control District	10	8	7	86%	0	88
Hayward City Fire Department	43	20	12	50%	0	57
Humboldt County Division of Environmental Health	41	44	23	74%	0	52
Imperial CUPA (State DTSC)	38	194	38	66%	0	70
Inyo County Dept. of Environmental Health Services	5	3	1	0%	0	N/A
Kern County Environmental Health Services Dept.	150	122	72	57%	1	51
Kings County Environmental Health	42	31	17	88%	0	32
Livermore-Pleasanton Fire Department	39	12	9	67%	0	49
Los Angeles City Fire Department	750	530	281	34%	14	82
Los Angeles County Department of Public Works	903	2112	473	5%	15	26
Madera County Environmental Health	42	75	34	62%	0	40
Mariposa County Public Health Department	6	3	2	50%	0	64
Mendocino County Environmental Health	34	17	9	67%	2	57
Merced County Environmental Health	73	39	28	75%	1	38
Milpitas City Fire Department	7	8	4	0%	0	N/A
Mono County Health Department	4	2	2	0%	0	N/A
Monterey County Health Department	63	14	10	10%	0	49
Mountain View Fire Department	12	2	2	50%	0	27
Napa County Dept. of Environmental Management	31	13	8	88%	0	46
Nevada County Environmental Health	20	25	15	87%	0	36
Orange City Fire Department	48	41	23	91%	0	51
Orange County Environmental Health	457	176	134	79%	4	44
Oxnard Fire Department	23	22	13	85%	1	19
Placer County Environmental Health	47	60	29	90%	1	59
Riverside County Department of Environmental Health	348	253	127	57%	5	38
Sacramento County Environmental Management Dept.	243	229	132	54%	0	43
San Benito County Health Department	16	17	7	71%	0	68
San Bernardino County Fire Department	445	124	101	63%	3	36
San Diego County Dept. of Environmental Health	415	215	105	98%	0	18
San Joaquin County Environmental Health	164	372	138	65%	3	31
San Luis Obispo County Environmental Health	78	62	35	71%	0	44
San Mateo County Environmental Health	142	60	44	73%	0	73
Santa Barbara County Environmental Health Services	76	30	26	54%	0	37
Santa Clara City Fire Department	39	11	9	56%	0	41
Santa Clara County Environmental Health	198	307	127	24%	0	25
Santa Cruz County Environmental Health	63	22	18	56%	0	61
Santa Monica Fire Department	22	29	12	75%	0	47
Shasta County Environmental Health	61	70	40	90%	1	59
Solano County Environmental Health	111	29	23	0%	0	N/A
Sonoma County Fire & Emergency Services Dept.	46	28	18	67%	0	32
Stanislaus County Environmental Resources	99	536	63	63%	2	41
Sunnyvale Department of Public Safety	21	1	1	100%	1	N/A
Tehama County Environmental Health	16	7	4	25%	0	16
Torrance Fire Department	39	20	12	92%	0	12
Tulare County Environmental Health	139	77	53	45%	0	24
Tuolumne County Environmental Health	21	17	10	80%	0	102
Ventura City Fire Department	32	2	1	100%	1	29
Vernon Health & Environmental Control Department	10	2	2	50%	0	147
Yuba County Environmental Health Department	16	3	3	67%	0	7
<b>Statewide Totals</b>	<b>7138</b>	<b>7007</b>	<b>2907</b>	<b>53%</b>	<b>65</b>	<b>45</b>

RTC calculations are per violation, not per facility, and exclude violations RTC at the time of the inspection (same day RTC).

**Enforcement** includes an Administrative Enforcement Order, a Red Tag to prohibit fuel delivery, or a Referral to the City Attorney/District Attorney/Other.

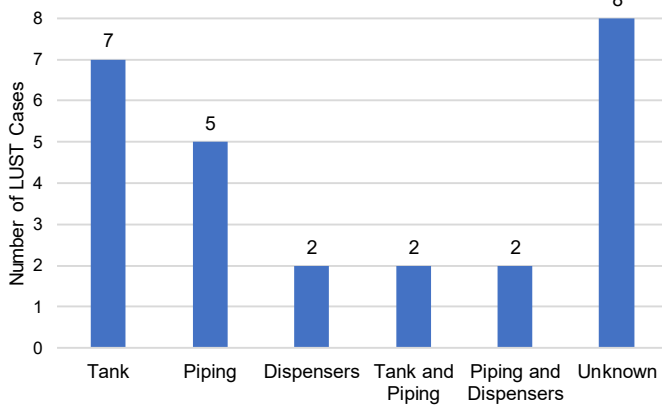
**Seven (7) UPAs not listed in this table had no priority violations cited for the period:** Alpine, Modoc, Pasadena, San Francisco, San Luis Obispo City, Santa Clara County Fire, and Sierra.

**Twenty-two (22) UPAs had 100% of priority violations RTC by October 2017.** Of those, 20 UPAs not listed in the table also reported no enforcement initiated: Del Norte, Fremont, Fullerton, Healdsburg/Sebastopol, Lake, Lassen, Long Beach, Marin, Petaluma, Plumas, Roseville, San Leandro, Santa Fe Springs, Santa Rosa, Siskiyou, Sutter, Trinity (State DTSC), Union City, Ventura County, and Yolo.

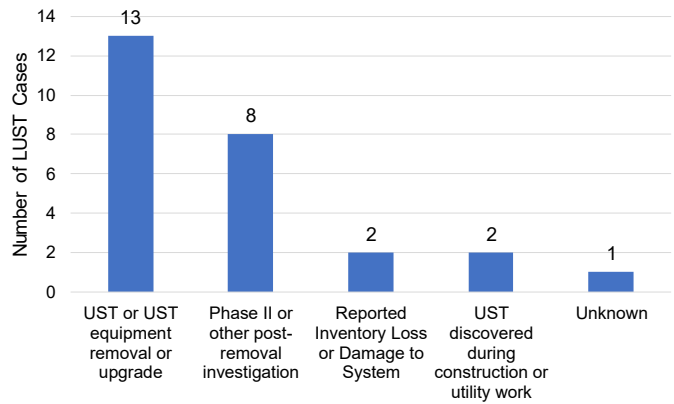
# Confirmed New Releases - New Leaking UST Cleanup Cases

GeoTracker leaking UST (LUST) data indicate that UST owners, operators and regulators reported 26 new releases from petroleum USTs between January and June 2017.

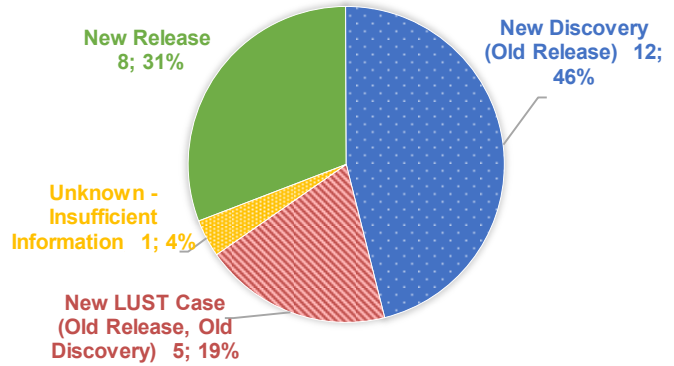
**Source of Release**



**How Release was Discovered**

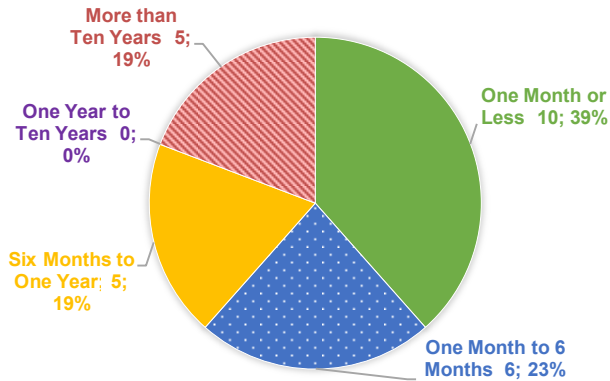


**What's "New" About the Release**

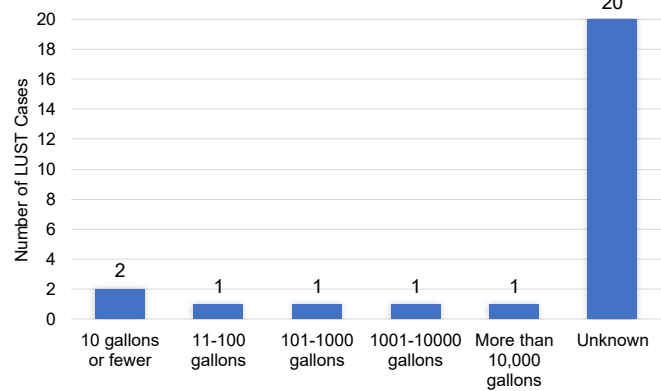


\*Old: refers to events happening more than one year ago.

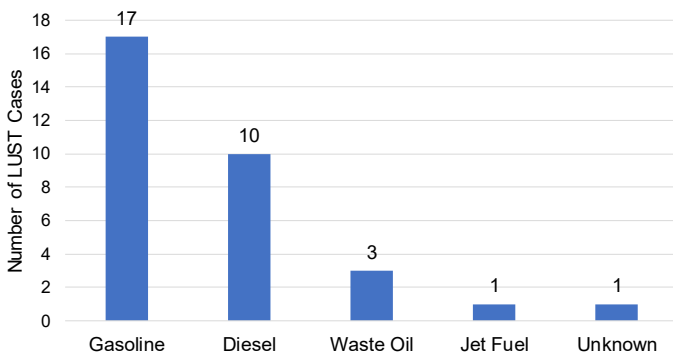
**Release Report to LUST Case (Time Elapsed)**



**Estimated Volume per Release**

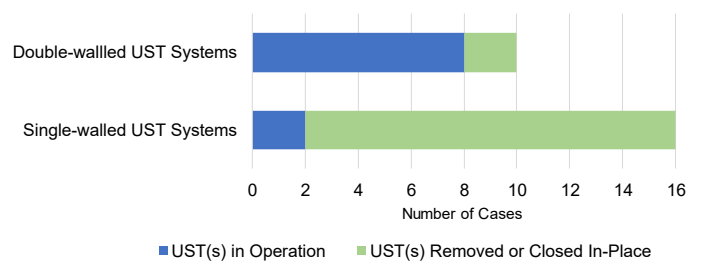


**Substance Released**



Note: In some cases, more than one substance has been identified. Therefore, the total number for this chart does not reflect the total number of cases.

**UST System Design & Status**

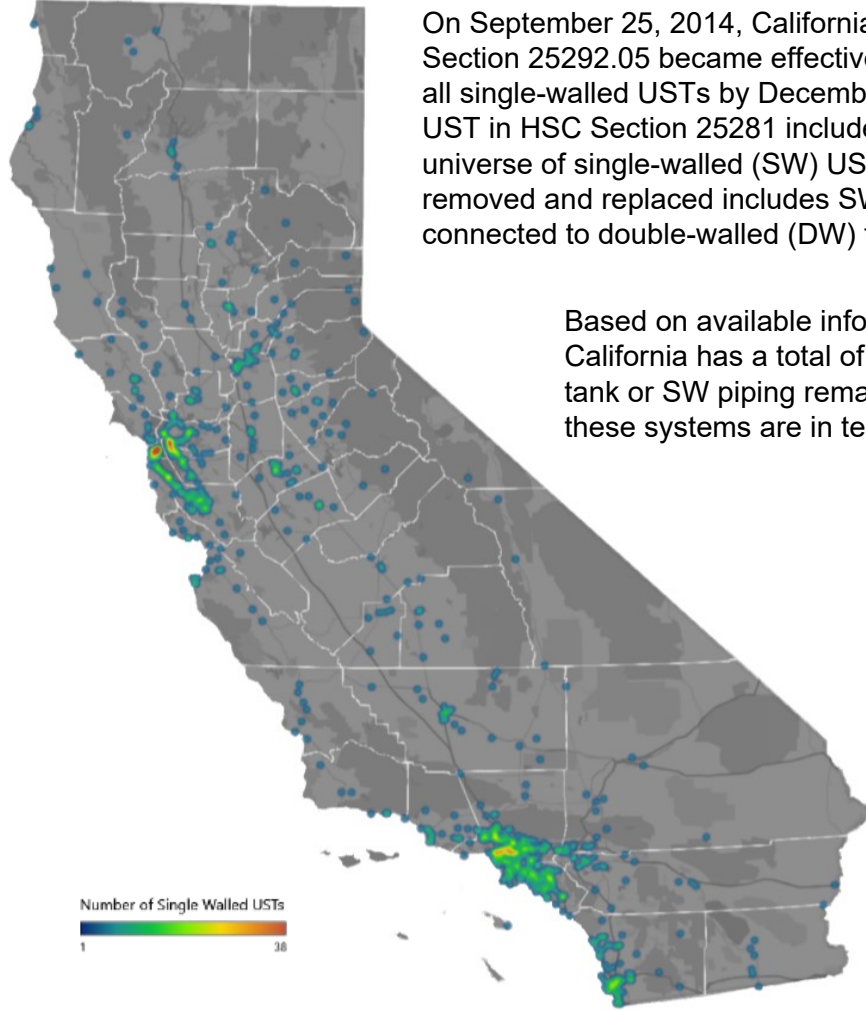


\* Design and status are for the one or more UST systems involved in the release

**See Appendix A**

**for details on individual releases**

# Single-Walled (SW) USTs



On September 25, 2014, California Health and Safety Code (HSC), Section 25292.05 became effective, requiring the permanent closure of all single-walled USTs by December 31, 2025. The statutory definition of UST in HSC Section 25281 includes connected piping. As a result, the universe of single-walled (SW) UST components that need to be removed and replaced includes SW tanks, as well as SW piping connected to double-walled (DW) tanks.

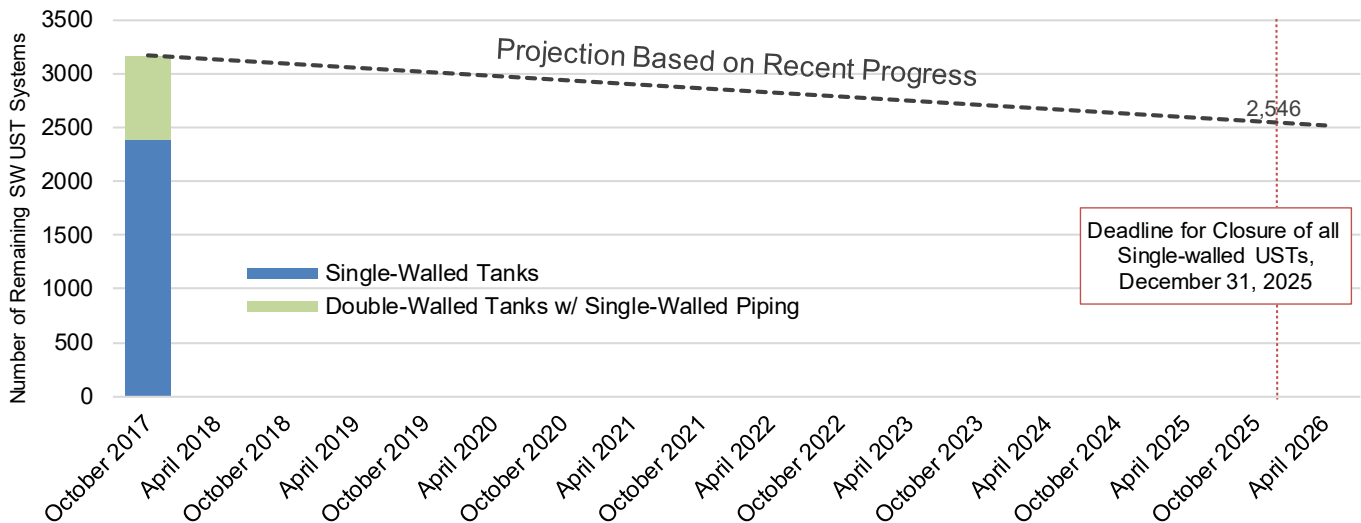
Based on available information in CERS as of October 2017, California has a total of 3,166 UST systems with either a SW tank or SW piping remaining at 1,286 facilities. Nineteen of these systems are in temporary closure.

### California Single-walled USTs

	SW Tank	DW Tank SW Piping	Total
USTs	2,391	775	3,166
Facilities	847	452	1,286

Total Facilities (1,286) is less than the sum of SW Tank and DW Tank SW Piping (1,299) because some facilities have both types of UST system.

## Statewide Progress - Single-Walled UST Closure



1) Projection based on recent progress assumes the average closure rate of 76/yr exhibited over the past two years.  
 2) Reaching no single-walled USTs by December 31, 2025 will require the closure of 386 systems per year.

Check [https://www.waterboards.ca.gov/ust/single\\_walled/](https://www.waterboards.ca.gov/ust/single_walled/) for additional information and resources.

## Single-Walled USTs by UPA, Sorted by Storage Capacity

UPA	Total # SW USTs	Total # SW UST Facilities	Total Gallon Storage Capacity, SW USTs	# SW Tanks	Gallon Capacity, SW Tanks	# DW Tanks w/ SW Piping	Gallon Capacity, DW Tanks w/ SW Piping	SW UST Facilities w/ Unresolved Priority Violations*
Los Angeles City Fire Department	250	116	58,355,524 <sup>^</sup>	166	57,802,500 <sup>^</sup>	84	553,024	33
Kings County Environmental Health	39	12	3,509,373	32	3,453,373	7	56,000	1
San Diego County Dept of Env.Health	281	101	2,725,235	206	2,058,960	75	666,275	0
Contra Costa County Health Services Dept	195	80	1,733,168	164	1,505,068	31	228,100	2
Los Angeles County Dept of Public Works	156	70	1,681,699	122	1,441,620	34	240,079	33
Orange County Environmental Health	159	68	1,515,896	126	1,296,876	33	219,020	4
Alameda County Environmental Health	150	60	1,328,599	131	1,229,979	19	98,620	26
San Francisco City/County Public Health Dept	134	59	1,304,410	112	1,227,100	22	77,310	0
San Mateo County Environmental Health	134	55	1,173,170	105	1,029,920	29	143,250	4
Stanislaus County Environmental Resources	105	30	963,000	97	913,000	8	50,000	7
San Bernardino County Fire Department	68	26	764,666	40	416,820	28	347,846	4
Kern County Env. Health Services Dept	77	27	723,500	74	687,500	3	36,000	8
Bakersfield City Fire Department	64	24	677,778	58	632,550	6	45,228	3
Riverside County Dept. of Env.Health	66	29	616,449	36	305,849	30	310,600	4
Yuba County Environmental Health Dept.	20	5	524,000	14	464,000	6	60,000	2
Sacramento County Env.Mgmt Dept	47	21	486,050	33	369,500	14	116,550	7
Amador County Environmental Health	52	16	451,000	38	264,000	14	187,000	1
Monterey County Health Department	60	23	439,550	50	384,500	10	55,050	2
Solano County Environmental Health	52	25	408,892	25	221,000	27	187,892	3
Santa Clara County Environmental Health	47	28	371,890	28	269,000	19	102,890	13
Merced County Environmental Health	35	15	366,000	25	285,000	10	81,000	1
Fresno County Department of Public Health	30	8	360,827	26	352,772	4	8,055	1
Long Beach Environmental Health	24	9	360,500	10	106,000	14	254,500	0
Marin County Department of Public Works	41	18	358,600	33	289,100	8	69,500	0
Imperial CUPA (State DTSC)	30	12	346,500	21	254,000	9	92,500	2
Ventura County Environmental Health	43	19	335,550	33	289,550	10	46,000	0
Sunnyvale Department of Public Safety	14	7	335,337	8	78,287	6	257,050	0
Shasta County Environmental Health	30	10	305,000	22	225,000	8	80,000	0
Butte County Environmental Health	33	11	299,964	21	205,200	12	94,764	3
Calaveras County Environmental Health	37	12	283,950	37	283,950	0	0	3
Anaheim City Fire Department	31	14	280,100	19	151,550	12	128,550	2
Santa Barbara County Environmental Health	23	10	265,200	17	216,000	6	49,200	3
San Luis Obispo County Env. Health	19	10	242,313	16	141,763	3	100,550	0
Tulare County Environmental Health	25	10	228,000	15	139,000	10	89,000	3
Hayward City Fire Department	26	13	219,550	20	194,000	6	25,550	0
Santa Rosa City Fire Department	21	4	208,000	19	188,000	2	20,000	0
Santa Cruz County Environmental Health	21	9	200,550	18	180,000	3	20,550	0
Humboldt County Division of Env.Health	24	10	196,998	19	172,084	5	24,914	2
Santa Clara County Fire Department	20	8	195,526	20	195,526	0	0	0
Santa Fe Springs Fire-Rescue	18	2	186,000	0	0	18	186,000	0
Yolo County Environmental Health	15	4	184,000	14	174,000	1	10,000	0
Placer County Environmental Health	23	10	178,020	21	172,500	2	5,520	0
San Leandro City	19	10	174,600	10	115,000	9	59,600	0
Berkeley City Toxics Management Division	19	8	168,020	16	166,000	3	2,020	0
Ventura City Fire Department	13	7	167,000	12	152,000	1	15,000	0
El Dorado County Environmental Mgmt	21	8	165,520	14	115,000	7	50,520	1
Plumas County Environmental Health	21	5	164,000	21	164,000	0	0	0
Mendocino County Environmental Health	20	6	162,000	16	122,000	4	40,000	2

SW: Single-walled

DW: Double-walled

\* Total Number of Unresolved Priority Violations cited in the past 18 months for facilities with one or more single-walled UST system.

<sup>^</sup> 54.6 million gallons of the Los Angeles City Fire Department Gallon Storage Capacity is from twenty-six 2.1 million gallon jet fuel USTs at the Defense Fuel Support Point San Pedro U.S. Navy facility. Although CERS contains conflicting information about the permit status of these USTs, UPA comments indicate they may have been removed in July 2016.



**Single-Walled UST Systems by UPA, Sorted by Storage Capacity (Continued)**

UPA	Total # SW USTs	Total # SW UST Facilities	Total Gallon Storage Capacity, SW USTs	# SW Tanks	Gallon Capacity, SW Tanks	# DW Tanks w/ SW Piping	Gallon Capacity, DW Tanks w/ SW Piping	SW UST Facilities w/ Unresolved Priority Violations*
Vernon Health & Env. Control Dept	11	4	162,000	0	0	11	162,000	0
Tuolumne County Environmental Health	24	9	153,940	18	126,000	6	27,940	1
Pasadena Fire Department	14	5	149,000	10	106,000	4	43,000	0
Livermore-Pleasanton Fire Department	15	5	146,262	12	112,262	3	34,000	0
Inyo County Dept of Env. Health Services	12	3	136,000	12	136,000	0	0	1
Torrance Fire Department	17	9	114,570	11	110,000	6	4,570	0
Nevada County Environmental Health	12	4	112,000	12	112,000	0	0	1
Sutter County Environmental Health	11	4	111,000	10	103,000	1	8,000	1
Burbank Fire Department	15	8	104,550	11	82,500	4	22,050	1
Sonoma County Fire & Emergency Services	15	7	96,500	14	96,000	1	500	0
Sierra County Human Services Department	7	2	95,000	7	95,000	0	0	0
El Segundo City Fire Department	16	5	88,797	2	60,000	14	28,797	0
Mariposa County Public Health Department	12	6	88,517	7	68,000	5	20,517	0
Santa Clara City Fire Department	9	5	88,254	7	68,254	2	20,000	0
Roseville City Fire Department	8	3	78,000	8	78,000	0	0	0
Fremont City Fire Department	11	6	75,050	7	63,000	4	12,050	0
Fullerton City Fire Department	10	4	71,000	8	70,000	2	1,000	0
Colusa County Health and Human Services	7	2	70,000	7	70,000	0	0	0
Orange City Fire Department	14	9	64,250	9	60,750	5	3,500	0
Siskiyou County Community Development	7	4	62,000	3	30,000	4	32,000	0
Petaluma City Fire Department	8	3	61,440	5	31,440	3	30,000	0
San Joaquin County Environmental Health	12	8	57,490	8	21,990	4	35,500	2
San Benito County Health Department	4	1	56,000	4	56,000	0	0	1
Lake County Environmental Health	7	3	53,000	7	53,000	0	0	0
Gilroy City Fire Department	6	2	52,000	3	30,000	3	22,000	0
Santa Monica Fire Department	4	1	48,000	0	0	4	48,000	0
Milpitas City Fire Department	6	4	33,500	3	30,000	3	3,500	0
Mountain View Fire Department	2	1	20,000	2	20,000	0	0	0
Trinity County (State DTSC)	2	1	20,000	0	0	2	20,000	0
Oxnard Fire Department	3	2	15,500	2	10,500	1	5,000	0
Union City Environmental Programs	1	1	10,000	0	0	1	10,000	0
San Luis Obispo City Fire Department	1	1	8,000	0	0	1	8,000	0
Napa County Dept of Environmental Mgmt	4	3	3,500	2	2,000	2	1,500	0
Glendale City Fire Department	5	5	3,050	0	0	5	3,050	1
Del Norte Environmental Health Division	1	1	2,000	0	0	1	2,000	0
Mono County Health Department	1	1	1,000	0	0	1	1,000	0
Alpine County Health Department	0	0	0	0	0	0	0	0
Glenn County Air Pollution Control District	0	0	0	0	0	0	0	0
Healdsburg/Sebastopol JPA	0	0	0	0	0	0	0	0
Lassen County Environmental Health	0	0	0	0	0	0	0	0
Madera County Environmental Health	0	0	0	0	0	0	0	0
Modoc County Environmental Health	0	0	0	0	0	0	0	0
Tehama County Environmental Health	0	0	0	0	0	0	0	0
<b>Statewide Total</b>	<b>3,166</b>	<b>1,286</b>	<b>89,202,644</b>	<b>2,391</b>	<b>83,002,093</b>	<b>775</b>	<b>6,200,551</b>	<b>189</b>

SW: Single-walled

DW: Double-walled

\* Total Number of Unresolved Priority Violations cited in the past 18 months for facilities with one or more single-walled UST system.

Note: Single-walled UST System numbers and capacity are likely underreported in this table. 1,938 UST facilities in CERS lack tank-specific information.

# Appendix A: Confirmed UST Releases, January – June 2017

Statewide Release Total: 26

Los Angeles County Department of Public Works (8 cases)

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<b>1. Chevron Service Station #9-1293</b>	<b>102 Huntington Dr E., Arcadia</b>
<b>New LUST Case (Old Release, Old Discovery)</b>	<b>Gasoline, Volume Unknown, Piping/Dispenser</b>
<p>In January 1996, three (3) UST systems originally installed in 1971 were removed. The UST removal report submitted to Los Angeles County Department of Public Works (DPW) June 1996 notes no holes in the USTs and proposes “product piping or joints” as the release source. Highest concentrations of petroleum constituents were detected beneath the northwestern-most dispenser. Soil was removed at the time of excavation. Los Angeles County DPW referred the case to the Regional Board June 2017. The site remains an active commercial fueling facility.</p>	

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<b>2. Colorado Chevron</b>	<b>500 Santa Anita Ave N., Arcadia</b>
<b>New LUST Case (Old Release, Old Discovery)</b>	<b>Gasoline, Volume Unknown, Piping/Dispenser</b>
<p>A release was discovered in 2001 during dispenser removal. The release involved two double-walled UST systems originally installed in 1988. Soil results for samples collected from beneath the dispensers were submitted to Los Angeles County DPW November 2001, which indicated low levels of petroleum constituents were detected. Los Angeles County DPW referred the case to the Regional Board April 2017. A work plan for additional assessment was submitted August 2017 and approved October 2017. The site remains an active commercial fueling facility.</p>	

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<b>3. Econo Lube &amp; Tune Inc</b>	<b>633 Atlantic Blvd N, Monterey Park</b>
<b>New LUST Case (Old Release, Old Discovery)</b>	<b>Waste Oil, Volume Unknown, Source within the UST System Unknown</b>
<p>In September 1998, a single-walled waste oil UST system was removed. The UST removal report submitted to Los Angeles County DPW October 1998 indicates petroleum constituents were detected beneath the waste oil UST. Los Angeles County DPW referred the case to the Regional Board April 2017. The area of the former UST was excavated to 25 feet below ground surface (bgs) for site redevelopment in 2017. One (1) soil sample was collected from the bottom of the excavation and petroleum constituents were not detected in the sample. Construction of a hotel at the site is ongoing with the hotel expected to open in 2018.</p>	

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<b>4. Golden State Enterprises</b>	<b>601 Grand Ave N, Covina</b>
<b>New Release</b>	<b>Diesel, Volume Unknown, Dispenser</b>
<p>A release was discovered during under-dispenser containment (UDC) replacement activities October 2016. It involved one (1) of the four (4) UST systems at the site, originally installed in 1995. Soil samples were collected beneath the UDC and product piping. The Soil Sampling Results Report submitted to Los Angeles County DPW October 2016 indicates the highest concentrations of petroleum constituents were found in the sample collected beneath the piping near the east end of</p>	

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the UDC. Los Angeles County DPW referred the case to the Regional Board January 2017. The site remains an active commercial fueling facility.

**5. Miller 1994 Family Trust**

**1140 La Brea Ave S, Inglewood**

**New Discovery (Old Release)**

**Gasoline, Volume Unknown, Source within the UST System Unknown**

A release was discovered during two (2) Phase II Environmental Site Assessments (ESAs) April 2016. The ESAs indicate an unknown number of single-walled USTs were present when the site was operated as a gas station between the 1950s and the 1980s. The USTs have been removed, but there is no documentation of the UST removal. Soil and groundwater samples were collected during a geophysical survey conducted 2016 to identify the former UST pit and former dispenser area. An October 2016 Site Characterization Report indicates petroleum constituents were detected in groundwater, below water quality objectives (WQOs), and in soil from 5 feet bgs to the maximum depth sampled of 50 feet bgs. Los Angeles County DPW referred the case to the Regional Board February 2017. A work plan for additional site assessment and interim remediation was submitted June 2017, and approved July 2017. The site is a strip mall with an automotive repair facility.

**6. Quemetco, Inc.**

**720 7th Avenue S, City of Industry**

**New LUST Case (Old Release, Old Discovery)**

**Diesel, Volume Unknown, Dispenser**

A release was discovered during product piping replacement activities May 2003. It involved one (1) double-walled UST system, installed in 1986. A June 2003 laboratory report indicates petroleum constituents were detected in samples collected beneath a dispenser, but no additional information on sampling or sample location was provided. Los Angeles County DPW referred the case to the Regional Board March 2017. The site remains an active commercial fueling facility.

**7. PIH Health Hospital Downey**

**11500 Brookshire Ave, Downey**

**New Release**

**Diesel, Volume Unknown, Piping**

A release was discovered during piping replacement activities in 2017. The double-walled diesel generator UST system involved in the release was installed in 1986. A report submitted to Los Angeles County DPW March 2017 indicated soil borings were advanced near the northern end of the UST and maximum concentrations of petroleum constituents were detected at 10 feet bgs. Los Angeles County DPW referred the case to the Regional Board October 2017. The site still operates a diesel generator UST.

**8. LA County Fleet Altadena Shop**

**252 Mountain View St, Altadena**

**New Release**

**Waste Oil, Volume Unknown, Source within the UST System Unknown**

In January 2017, one (1) waste oil UST system originally installed in 1985 was removed. The UST removal report submitted to Los Angeles County DPW March 2017 notes the UST was observed to be in good condition with no observed holes and no staining beneath the UST. Petroleum constituents were detected at low levels in three (3) soil samples collected. Los Angeles County DPW referred the case to the Regional Board October 2017. The case was changed from a LUST Cleanup Site case to a

Non-Case Information case in GeoTracker October 2017. The Los Angeles County fleet maintenance and fueling facility remains in operation.

Fresno County Department of Public Health (2 cases)

**1. Cal-West Rain Facility** **4939 North Madera Avenue, Kerman**

**New Discovery (Old Release)**

**Gasoline and Diesel, Volume Unknown, Piping/UST**

Two (2) USTs were discovered during a site assessment for property transfer and removed April 2017. A report on UST removal submitted to Fresno County Department of Public Health (DPH) May 2017 had conflicting information, noting moderate rust and small holes and later in the report noting no holes observed. The report indicates the USTs were installed 30+ years ago and were single-walled USTs. Fresno County DPH referred the case to the Regional Board May 2017. Reports on additional investigation, submitted August 2017 and October 2017, indicate petroleum constituents were detected in soil between 5 and 20 feet bgs and in one (1) soil vapor sample, below residential and commercial Low-Threat Closure Policy (LTCP) criteria. The site is an agricultural irrigation service and design business with no UST systems present.

**2. Wilson Homes** **3600 North Leonard Avenue, Clovis**

**New Discovery (Old Release)**

**Gasoline, Volume Unknown, UST**

One (1) single-walled UST was discovered during site redevelopment and removed December 2016. The UST removal report submitted to Fresno County DPH January 2016 notes the UST appeared to have been used for a gasoline-powered wind machine, and the product piping associated with the UST system appeared to have been previously removed. Petroleum constituents were detected in the two (2) samples collected beneath the former UST. Fresno County DPH referred the case to the Regional Board January 2017. Additional soil sampling and soil vapor sampling were conducted in April and May 2017 and petroleum constituents were not detected. A Preclosure Notification was issued August 2017. The Site has been redeveloped for residential use.

Santa Barbara County Environmental Health Services (2 cases)

**1. Waye Trust Service Station** **5590 Hollister Avenue, Goleta**

**New Discovery (Old Release)**

**Gasoline and Waste Oil, Unknown (Likely between 500 and 1,000 Gallons), UST**

In February 2017, six (6) single-walled UST systems originally installed in the 1970s or earlier were removed. The USTs had previously been abandoned in-place and were discovered during a Phase II ESA June 2016. The Unauthorized Release Form (URF) dated February 2017 indicates the releases were from one (1) gasoline UST and one (1) waste oil UST. The report on UST removal, submitted to Santa Barbara County Environmental Health Services August 2017, indicates impacted soil was removed along with the USTs February 2017. The case was closed October 2017. The site is an automobile dealership.

**2. Vandenberg Air Force Base - TU713  
(Formerly Facility 1713, Associated with Buildings 1706, 1709, 1714, & 1715) Airfield Road**

**New Release**

**Jet Fuel, Volume Unknown, Source within the UST System Unknown**

The release is from a 50,000-gallon jet fuel UST originally installed in 1959. There is no record in the casefile of how the release was discovered and there is no record UST removal. An April 2017 Final Preliminary Site Assessment Report found in Envirostor indicates there has been no recent site activity and recommends additional site investigation. The site remains an active fueling station and air field.

**Berkeley City Toxics Management Division (1 case)**

**1. Former Center for Independent Living 2539 Telegraph Ave, Berkeley**

**New Discovery (Old Release)**

**Unknown (Likely Diesel or Waste Oil), Volume Unknown, UST**

In November 2016, two (1) UST system originally installed sometime between 1941 and 1972 was removed. The UST was initially discovered during a Phase II ESA January 2006. Berkeley City Toxics Management Division referred the case to the Regional Board January 2017. The UST removal report submitted January 2017 identifies the UST as a heating oil tank, but the Regional Board caseworker indicated they consider the contents to be unknown until there is additional evidence, noting that it is possible the UST was used to store diesel during the time the Site was a grocery store or waste oil when the site was an automobile dealer and repair facility. A report on additional assessment and request for closure was submitted July 2017, noting that petroleum constituents detected in soil and groundwater do not pose a human health risk. A Notice of Intent to Issue No Further Action Letter was issued by the Regional Board September 2017. The Site is currently under construction with plans for a six-story mixed use retail and residential building.

**Contra Costa County Health Services Department (1 case)**

**1. Saint Mary's College (Saint Joseph's Hall) 1928 Saint Mary's Road, Moraga**

**New Discovery (Old Release)**

**Gasoline and Diesel, Volume Unknown, Piping/UST**

Five (5) UST systems originally installed in 1925 were located between September and December 2016, after some of the USTs were encountered during utility work at the Site at an unspecified earlier date. A Site Assessment was conducted December 2016 in which five (5) soil boring were advanced near the USTs. The report on the Site Assessment was submitted to Contra Costa County Health Services Department February 2017, noting that maximum concentrations of petroleum constituents were detected in the vicinity if the two (2) southern USTs. Contra Costa County Health Services referred the case to the Regional Board February 2017. The USTs have not been removed, but a work plan for removal was submitted May 2017 that indicated the USTs would be removed within 24 months. The USTs are located beneath a parking lot and sidewalk near a residence hall.

El Segundo City Fire Department (1 case)

<b>1. Equinix Communications</b>	<b>1920 Maple Ave E, El Segundo</b>
<b>New Discovery (Old Release)</b>	<b>Diesel, Approximately 2,500 Gallons, Piping</b>
<p>The release was discovered during UST upgrade and re-piping activities, conducted September 2016. The release involved two (2) UST systems installed 2001. The report on tank-top upgrade and re-piping activities was submitted to the City of El Segundo Fire Department (ESFD) November 2016 and indicates the highest concentrations were detected along the piping leading to the 11 generators powered by the USTs. El Segundo FD referred the case to the Regional Board February 2017. The current owner indicated there are records of two (2) past releases at the Site: a spill of approximately 2,000-2,500 gallons in March 2008 when the generator belly tank malfunctioned and the fuel transfer pump failed to shut off, and a minor leak from a broken pipe in October 2014. A work plan for additional assessment was submitted and approved August 2017. The two diesel generator USTs are still present at the site.</p>	

Glenn County Air Pollution Control District (1 case)

<b>1. Former Gas Station/Jaco Oil Company Property</b>	<b>410 N. Tehama Street, Willows</b>
<b>New LUST Case (Old Release, Old Discovery)</b>	<b>Gasoline and Diesel, Volume Unknown, Piping</b>
<p>The release was discovered during a site investigation in 1990. The three (3) single-walled USTs originally installed in 1978 were removed in 1985. The site investigation report submitted to Glenn County Air Pollution Control District in 1990 notes the current owner purchased the property in 1981, but did not operate the tanks, indicating fueling operations ceased in, or prior to, 1981. The LUST case was opened January 2017 when a Work Plan for Site Assessment was received by the Regional Board. Groundwater monitoring wells were installed April 2017 and have been sampled three (3) times; petroleum constituents were detected above WQOs in groundwater samples collected from all four (4) monitoring wells October 2017. The site is currently operating as a market.</p>	

Kern County Environmental Health Services Department (1 case)

<b>1. The Filling Station</b>	<b>6434 Laval Road, Lebec</b>
<b>New Release</b>	<b>Diesel, Volume Unknown, Piping</b>
<p>The release was discovered during product piping upgrade activities May 2017. The four (4) double-walled USTs originally installed in 1999 remain at the site. Kern County Environmental Health Services Department referred the case to the Regional Board June 2017. The report on the May 2017 soil sampling was submitted to the Regional Board July 2017. Soil samples were collected along the product piping and beneath the exposed UDCs. The highest concentrations of petroleum constituents were found beneath the UDCs. A Site Assessment Work Plan was submitted August 2017, and approved September 2017. The site remains an active commercial fueling facility.</p>	

Long Beach City Environmental Health (1 case)

<b>1. Long Beach Travel Center</b>	<b>1670 Pacific Coast Hwy W, Long Beach</b>
<b>New Discovery (Old Release)</b>	<b>Gasoline and Diesel, Volume Unknown, Source within the UST System Unknown</b>
<p>The release was discovered during a Phase II ESA September 2016 and Additional Site Characterization was completed December 2016. The release may involve the five (5) current UST systems installed in 1998 or the previous UST systems installed in 1963. The Site Investigation Report, submitted to the Long Beach City Environmental Health February 2017, indicates petroleum constituents were detected in soil and groundwater beneath the property near the current and former USTs. Long Beach City Environmental Health referred the case to the Regional Board in March 2017. CERS identifies several violations for leak detection system and failure to maintain UDCs in 2014 and 2015. Small releases at the dispensers were also noted as part of the UDC violations in both 2014 and 2015. A work plan for site assessment was submitted July 2017 and approved September 2017. The site remains an active commercial fueling facility.</p>	

Los Angeles City Fire Department (1 case)

<b>1. Phillip 66 5779</b>	<b>2701 3rd Street W, Los Angeles</b>
<b>New Discovery (Old Release)</b>	<b>Diesel, Volume Unknown, Source within the UST System Unknown</b>
<p>The release was discovered during a Phase II ESA January 2016. The first-generation UST systems were present from 1935-1963 and the second-generation USTs were present from 1963-1975. The report on the site assessment was submitted to Los Angeles City Fire Department (LAFD) April 2017, indicating petroleum constituents were detected in soil, soil vapor, and groundwater samples. The report indicates no current UST systems were identified at the site. LAFD referred the case to the Regional Board May 2017. The site has been an automotive repair facility since 1963.</p>	

Sacramento County Environmental Management Department (1 case)

<b>1. Phillips 66/Chevron Fueling Station Site (Former)</b>	<b>1629 21st Street, Sacramento</b>
<b>New Discovery (Old Release)</b>	<b>Gasoline, Volume Unknown, Source within the UST System Unknown</b>
<p>The release was discovered when petroleum hydrocarbons were detected during a Phase II ESA March 2017. Fueling operations at the site ceased in 1967, but there is no record of UST removal. Results from a 2009 geophysical investigation and site assessment were submitted as part of a report on the release submitted to Sacramento County Environmental Management Department May 2017. The 2009 report indicates the USTs appear to have been removed but piping remains underground and leads to disturbed soil believed to be the former UST pit. Additionally, a small (500-1000-gallon) UST which reportedly appeared to have stored lubricating grease was discovered in 2009 and removed in 2010. The site is a commercial building and parking lot.</p>	

San Diego County Department of Environmental Health (1 case)

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**1. Coronado Transportation Systems, Inc. 2401 Pacific Highway, San Diego**

**New Release**

**Gasoline, Volume Unknown, UST**

In January 2017, one (1) UST system originally installed in 1998 was removed. The UST removal report submitted to San Diego County Department of Environmental Health February 2017 indicates petroleum constituents were detected in a grab groundwater sample collected from the UST excavation, but not detected in soil samples. The site is a public parking lot.

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San Francisco City & County Public Health Department (1 case)

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**1. Potrero Service Station Inc.**

**998 Potrero Avenue, San Francisco**

**New Discovery (Old Release)**

**Gasoline, Volume Unknown, UST**

In January 2017, two (2) single-walled USTs were removed. The UST removal report submitted to San Francisco City & County Public Health Department March 2017 indicates the age of the USTs is unknown. One UST contained liquid and one had been filled with concrete. The UST with liquid was noted to have at least one visible hole. Discoloration and hydrocarbon odor were observed in soil beneath both USTs. Soil sample results indicate petroleum constituents were found. The site is an automotive repair facility.

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San Mateo County Environmental Health (1 case)

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**1. 694 El Camino Real**

**694 El Camino Real, Redwood City**

**New Discovery (Old Release)**

**Gasoline, Volume Unknown, UST**

The release was discovered as part of a due diligence investigation April 2017. The release involved an unknown number of UST systems that were removed in 1983. The station operated from 1943-1977. A memorandum of a June 2017 meeting indicates three (3) grab groundwater samples were collected and petroleum constituents were detected in two of the samples. Groundwater monitoring wells located at adjacent sites helped to delineate the plume and the consultant conducted a survey of underground utilities to confirm that they would not act as a conduit. A Public Notice of Case Closure was issued July 2017. The Site is an automobile dealership.

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Santa Clara County Environmental Health (1 case)

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**1. Campbell 76**

**3145 S Bascom Ave, San Jose**

**New Release**

**Gasoline and Diesel, 14,007 Gallons, UST**

In February 2017, a gasoline release was discovered by the station operator due to an inventory loss. The release was reported to Santa Clara County Environmental Health March 2017. The UST system involved in the release was installed in 1978. Inspection records in CERS indicate fuel was pumped out of all three (3) of the USTs at the facility March 2017 and the USTs were red tagged. One soil assessment and two soil gas assessments were performed March 2017, confirming the presence of gasoline near the USTs. A March 2017 Interim Remedial Action Plan indicates the responsible party

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plans to expedite vertical assessment and well installation to assess the impact to groundwater, evaluate soil vapor impacts, remove any free product encountered, and remove the USTs. A Soil Vapor Extraction (SVE) Pilot Test Report was submitted August 2017 and indicates SVE can effectively remove petroleum constituents from the subsurface. The site is a commercial fueling facility in temporary closure.

Santa Rosa City Fire Department (1 case)

**1. Bennett Property**

**1089 Santa Rosa Ave, Santa Rosa**

**New Discovery (Insufficient Information on Time of Release)**

**Gasoline, Volume Unknown, Source within the UST System Unknown**

The release was discovered during a Phase II ESA in January 2017. Gasoline service station operations and dry-cleaning operations were reportedly conducted at the Site during the 1950s through the 1970s; however, there is no record of current or former USTs at the Site. The report on the Phase II ESA, submitted February 2017, notes low levels of petroleum constituents were detected in soil and groundwater samples. A report on additional site assessment was submitted March 2017, but was not uploaded to GeoTracker. The case was closed June 2017. The site is an automobile dealership.

Stanislaus County Environmental Resources (1 case)

**1. RK Service Station**

**12405 Yosemite Boulevard, Waterford**

**New Release**

**Gasoline, 5-10 Gallons, Piping**

A direct push drill rig punctured a product line during a site investigation June 2017. The UST system involved in the release was installed in 1993. A Product Line Repair and Soil Sampling report submitted to Stanislaus County Environmental Resources July 2017 notes that the service company estimated that only 5-10 gallons spilled out because the automatic shut-off engaged when the pressure in the pipe dropped. Elevated petroleum constituents were detected at 4.5 feet bgs beneath the damaged pipe and a limited soil excavation was conducted July 2017. A work plan for additional assessment was submitted and approved September 2017. The site remains an active commercial fueling facility.

## Appendix B: List of Priority Violations

<b>CERS Violation Name</b>	<b>Violation Type Number</b>	<b>Group/Category</b>
Falsification	2010006	Serious Programmatic
Failure to Obtain Operating Permit	2030021	Serious Programmatic
Permanent Closure	2030038	Serious Programmatic
Red Tag Deposit	2030044	Serious Programmatic
Red Tag Tampering	2030045	Serious Programmatic
Temporary Closure (RD)	2030063	Serious Programmatic
Reporting Unauthorized Releases (RD)	2030077	Serious Programmatic
Corrosion Protection - Impressed Current/Sacrificial Anode (RP)	2030009	Release Prevention
Lined Tank Recertification (RP)	2030029	Release Prevention
Unsafe UST Operation (RP)	2030035	Release Prevention
Overfill Prevention (RP)	2030036	Release Prevention
Secondary Containment	2030047	Release Prevention
Well Proximity Enhanced Leak Detection (ELD) Testing	2030066	Release Prevention
Corrosion Protection - Field-Installed (RP)	2060004	Release Prevention
Spill Bucket (RP)	2060020	Release Prevention
UST Design/Construction - Compatibility	2060024	Release Prevention
UST Primary Containment	2060027	Release Prevention
Automatic Tank Gauge (ATG) and Manual Inventory Reconciliation (RD)	2030004	Release Detection - Tank
Continuous In-Tank Leak Detection (CITLD) - Single-Walled Tank (RD)	2030005	Release Detection - Tank
Automatic Tank Gauging - Single-Walled Tank (RD)	2030006	Release Detection - Tank
Double-Walled Monitoring - After January 1, 1984 and Before July 1, 2004 (RD)	2030016	Release Detection - Tank
Manual Tank Gauging (RD)	2030030	Release Detection - Tank
Vapor, Pressure, Hydrostatic (VPH) Monitoring - On or After July 1, 2004 (RD)	2030065	Release Detection - Tank
Automatic Tank Gauge (ATG) / Continuous In-Tank Leak Detection (CITLD) (RD)	2060002	Release Detection - Tank
Double-Walled Pressurized Pipe -Interstitial Monitoring (RD)	2030018	Release Detection - Piping
Emergency Generator Piping - Exemption (RD)	2030020	Release Detection - Piping
Line Leak Detector (LLD) (RD)	2030025	Release Detection - Piping
Line Leak Detector (LLD) - Single-Walled pressurized Pipe (RD)	2030027	Release Detection - Piping
Piping Obstruction (RD)	2030040	Release Detection - Piping
Pressurized Double-Walled Pipe - Line Integrity Test (RD)	2030042	Release Detection - Piping
Single-Walled Conventional Suction Testing (RD)	2030050	Release Detection - Piping
Single-Walled Gravity	2030051	Release Detection - Piping
Single-Walled Pressurized Pipe - Line Leak Detector (LLD) (RD)	2030052	Release Detection - Piping
Single-Walled Safe Suction (RD)	2030053	Release Detection - Piping
Emergency Generator Tank Systems Line Leak Detector (LLD) Exemption Conditions	2030075	Release Detection - Piping
Line Leak Detector (LLD) - Installed (RD)	2060012	Release Detection - Piping
Record Retention (RD)	2010008	Release Detection - General
Monitoring and Maintenance Records (RD)	2030001	Release Detection - General
Audible and Visual Alarm	2030003	Release Detection - General

Appendix B: California UST Leak Prevention: January - June 2017 Semi-Annual Report

<b>CERS Violation Name</b>	<b>Violation Type Number</b>	<b>Group/Category</b>
Groundwater and Vadose Zone Monitoring	2030022	Release Detection - General
Monitoring Equipment (RD)	2030043	Release Detection - General
Statistical Inventory Reconciliation (SIR)	2030056	Release Detection - General
Statistical Inventory Reconciliation (SIR) (RD)	2030057	Release Detection - General
Statistical Inventory Reconciliation (SIR) (RD)	2030058	Release Detection - General
Recording Unauthorized Releases (RD)	2030061	Release Detection - General
Tampering with Leak Detection Equipment (RD)	2030062	Release Detection - General
Improper Monitoring (RD)	2060015	Release Detection - General