



## CALIFORNIA UNDERGROUND STORAGE TANK (UST) LEAK PREVENTION

### JANUARY – DECEMBER 2021 ANNUAL 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 December 2021. Data sources were collected on April 1, 2022, acknowledging that it can sometimes take up to 90 days for data to display in CERS or GeoTracker.

This report was prepared as part of Cooperative Agreement L99T85901 between the U.S. Environmental Protection Agency (USEPA) Region 9 and the State Water Board, Contact Kenneth Dixon at [dixon.kenneth@epa.gov](mailto:dixon.kenneth@epa.gov) or Tom Henderson at [tom.henderson@waterboards.ca.gov](mailto:tom.henderson@waterboards.ca.gov) for more information.

#### Statewide UST Numbers\*

Number of USTs	37,465
Number of UST Facilities	13,734
Storage Capacity (gallons)	413,275,131

Statewide number of USTs and storage capacity are underreported here (249 UST facilities in CERS lack tank-specific information)

#### CERS Implementation (Page 2)

Complete and accurate data in CERS enables California to manage its UST Leak Prevention program more effectively. It is crucial that the State Water Board 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 [SW] USTs).

Use / Contents	USTs	Capacity (gal)
Motor Vehicle, Gasoline	24,345	291,147,073
Motor Vehicle, Diesel	8,583	88,326,356
Motor Vehicle, Racing fuel	49	349,900
Generator, Diesel	2,096	18,678,760
Other, Diesel	238	2,933,924
Waste Oil	939	1,010,831
Chemicals or Haz Waste	326	1,729,706
Jet Fuel or Aviation Gas	254	5,532,365
Marina Fueling	131	1,151,697
Other	504	2,414,519

% UST Facilities with an Inspection Record less than 3 years old	99.11%
UPAs Approved for Paperless Reporting	72/89

#### Priority Violations & Return to Compliance (page 2-4)

Inspection reports maintained at UPA offices were previously the only source of UST violation information. UPAs now report both violations and Return to Compliance (RTC) dates to CERS, making it simpler to identify statewide trends. Of the 89 violations currently available in the CERS library, 48 priority violations were identified for this report. These 48 priority violations include all 30 violations that trigger USEPA technical compliance rate measure (TCR 9a-d), two violations related to the designated operator walk through inspections, plus 16 additional violations of significant interest to State Water Board and USEPA. Please reference Appendix B for the list of priority violations.

Routine Inspections (January – December 2021)	13,414
Priority Violations	16,155
% Inspected UST Facilities with Priority Violations	53.6%
% UST Facilities with Priority Violations (All RTC)	58.7%

#### New Leaking UST Cases (page 5)

Minimizing petroleum releases to the environment is an important measure of UST Leak Prevention program success. California manages this data in GeoTracker, with each release tied to a corresponding leaking UST (LUST) cleanup case. When releases are discovered, responsible parties or UPAs alert one of nine Regional Water Quality Control Boards or six County Local Oversight Program (LOP) agencies, often via an Unauthorized Release Form (URF). Newly reported releases may have occurred long ago at facilities that no longer operate USTs. Releases may also have occurred (at operating facilities) prior to current UST regulations.

Releases Reported (Total)	27
Releases Reported (Operating UST Facilities)	12
New Releases (Newly Occurring)	1

#### Single-Walled USTs (page 6-8)

California law requires permanent closure of SW USTs and piping by December 31, 2025. Encouraging owners to remove and replace SW tanks and piping in advance will reduce contractor shortages, unmanageable permitting workloads and UST abandonment.

Number of SW USTs (tanks or piping)	2,373
Facilities with SW USTs (tanks or piping)	962
% of Statewide UST Systems (SW)	6.3%
% of Statewide UST Facilities (SW)	7.0%
SW UST Facilities with unresolved priority violation(s) in past 18 months	270



**Return to Compliance by UPA, Sorted by % Facilities Return to Compliance 90 Days after Inspection (page 1 of 2)**

<b>UPA</b>	<b>Percent of Facilities Inspected</b>	<b>Number of Routine Inspections</b>	<b>Number of Priority Violations</b>	<b>Number of Facilities w Priority Violations</b>	<b>Facilities w Priority Violations, RTC Same Day</b>	<b>Facilities w Priority Violations, RTC after 30 days</b>	<b>Facilities w Priority Violations, RTC after 60 days</b>	<b>Facilities w Priority Violations, RTC after 90 days</b>	<b>Facilities w Priority Violations RTC by April 2022</b>	<b>Formal Enforcements Initiated</b>
Monterey County Health Department	98%	218	99	63	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1
Trinity County - DTSC	100%	6	9	4	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (25%)	0
Fresno County Department of Public Health	47%	195	212	108	3 (3%)	7 (6%)	8 (7%)	9 (8%)	9 (8%)	0
Mariposa County Public Health Department	91%	36	19	13	2 (15%)	2 (15%)	2 (15%)	2 (15%)	3 (23%)	0
Modoc County Environmental Health	100%	7	11	5	1 (20%)	1 (20%)	1 (20%)	1 (20%)	2 (40%)	0
Los Angeles County Department of Public Works	93%	1571	3639	710	13 (2%)	96 (14%)	129 (18%)	146 (21%)	236 (33%)	0
Santa Clara County Environmental Health	100%	395	790	295	27 (9%)	60 (20%)	66 (22%)	72 (24%)	89 (30%)	0
Union City Environmental Programs	91%	20	6	4	0 (0%)	1 (25%)	1 (25%)	1 (25%)	1 (25%)	0
Solano County Environmental Health	87%	221	69	39	7 (18%)	8 (21%)	9 (23%)	10 (26%)	12 (31%)	0
Santa Monica Fire Department	103%	36	43	27	5 (19%)	6 (22%)	6 (22%)	7 (26%)	8 (30%)	0
Tulare County Environmental Health	92%	254	484	196	20 (10%)	39 (20%)	48 (24%)	51 (26%)	62 (32%)	2
Santa Clara County Fire Department	89%	58	75	34	4 (12%)	8 (24%)	8 (24%)	9 (26%)	9 (26%)	0
Kern County Environmental Health Services	100%	322	303	127	9 (7%)	23 (18%)	31 (24%)	34 (27%)	50 (39%)	3
Amador County Environmental Health	104%	31	7	7	0 (0%)	1 (14%)	2 (29%)	2 (29%)	2 (29%)	0
San Francisco City & County Public Health	100%	236	222	132	10 (8%)	31 (23%)	39 (30%)	41 (31%)	45 (34%)	0
Santa Fe Springs Fire-Rescue	97%	29	38	22	2 (9%)	3 (14%)	4 (18%)	7 (32%)	9 (41%)	0
Burbank Fire Department	98%	65	7	6	2 (33%)	2 (33%)	2 (33%)	2 (33%)	2 (33%)	0
Glenn County Air Pollution Control District	94%	16	20	12	1 (8%)	2 (17%)	3 (25%)	4 (33%)	8 (67%)	6
Inyo County Department of Environmental Health	92%	24	41	18	4 (22%)	5 (28%)	6 (33%)	6 (33%)	8 (44%)	0
Mountain View Fire Department	100%	30	27	15	0 (0%)	1 (7%)	3 (20%)	5 (33%)	8 (53%)	1
Vernon Health & Environmental Control Department	96%	23	4	3	0 (0%)	1 (33%)	1 (33%)	1 (33%)	2 (67%)	0
Yuba County Environmental Health Department	98%	43	33	21	2 (10%)	4 (19%)	6 (29%)	7 (33%)	8 (38%)	0
Marin County Dept of Public Works, Waste Mgmt,	74%	68	87	39	6 (15%)	8 (21%)	13 (33%)	14 (36%)	23 (59%)	0
Mono County Health Department	95%	20	66	19	1 (5%)	3 (16%)	7 (37%)	7 (37%)	12 (63%)	6
Santa Cruz County Environmental Health	73%	103	103	45	3 (7%)	14 (31%)	15 (33%)	17 (38%)	24 (53%)	0
Lassen County Environmental Health	80%	12	7	5	1 (20%)	1 (20%)	2 (40%)	2 (40%)	2 (40%)	0
Plumas County Environmental Health	89%	19	42	15	3 (20%)	5 (33%)	6 (40%)	6 (40%)	11 (73%)	4
Torrance Fire Department	96%	52	12	10	0 (0%)	2 (20%)	3 (30%)	4 (40%)	6 (60%)	0
Lake County Environmental Health	97%	31	42	17	6 (35%)	6 (35%)	6 (35%)	7 (41%)	7 (41%)	0
Stanislaus County Environmental Resources	100%	220	335	125	18 (14%)	32 (26%)	42 (34%)	52 (42%)	70 (56%)	0
Mendocino County Environmental Health	98%	65	50	31	7 (23%)	8 (26%)	12 (39%)	13 (42%)	16 (52%)	3
Colusa County Health and Human Services	100%	21	46	14	1 (7%)	4 (29%)	5 (36%)	6 (43%)	8 (57%)	6
Hayward City Fire Department	92%	80	68	34	7 (21%)	9 (26%)	13 (38%)	15 (44%)	17 (50%)	0
Los Angeles City Fire Department	95%	1187	1192	562	128 (23%)	192 (34%)	232 (41%)	256 (46%)	316 (56%)	61
Merced County Environmental Health	97%	118	168	78	13 (17%)	27 (35%)	35 (45%)	36 (46%)	43 (55%)	6
Pasadena Fire Department	102%	57	36	26	7 (27%)	9 (35%)	10 (38%)	12 (46%)	16 (62%)	0
Tehama County Environmental Health	95%	41	48	26	5 (19%)	9 (35%)	12 (46%)	12 (46%)	15 (58%)	0
Santa Clara City Fire Department	100%	65	72	43	8 (19%)	16 (37%)	18 (42%)	20 (47%)	22 (51%)	0
Gilroy City Fire Department	100%	27	22	15	4 (27%)	6 (40%)	7 (47%)	7 (47%)	8 (53%)	0
Riverside County Department of Environmental	100%	702	999	469	73 (16%)	130 (28%)	187 (40%)	232 (49%)	278 (59%)	25
Del Norte Environmental Health Division	100%	11	10	6	0 (0%)	2 (33%)	3 (50%)	3 (50%)	3 (50%)	0
Sierra County Human Services Department	80%	4	9	4	1 (25%)	1 (25%)	2 (50%)	2 (50%)	2 (50%)	2
San Mateo County Environmental Health	95%	257	222	128	21 (16%)	46 (36%)	60 (47%)	66 (52%)	80 (63%)	0
Madera County Environmental Health	100%	78	180	67	16 (24%)	28 (42%)	33 (49%)	35 (52%)	40 (60%)	2
Sunnyvale Department of Public Safety	100%	42	55	26	7 (27%)	10 (38%)	11 (42%)	14 (54%)	20 (77%)	0
<b>Statewide Totals</b>	<b>94%</b>	<b>13414</b>	<b>16155</b>	<b>6917</b>	<b>1408 (20%)</b>	<b>2476 (36%)</b>	<b>3073 (44%)</b>	<b>3404 (49%)</b>	<b>4061 (59%)</b>	<b>274</b>

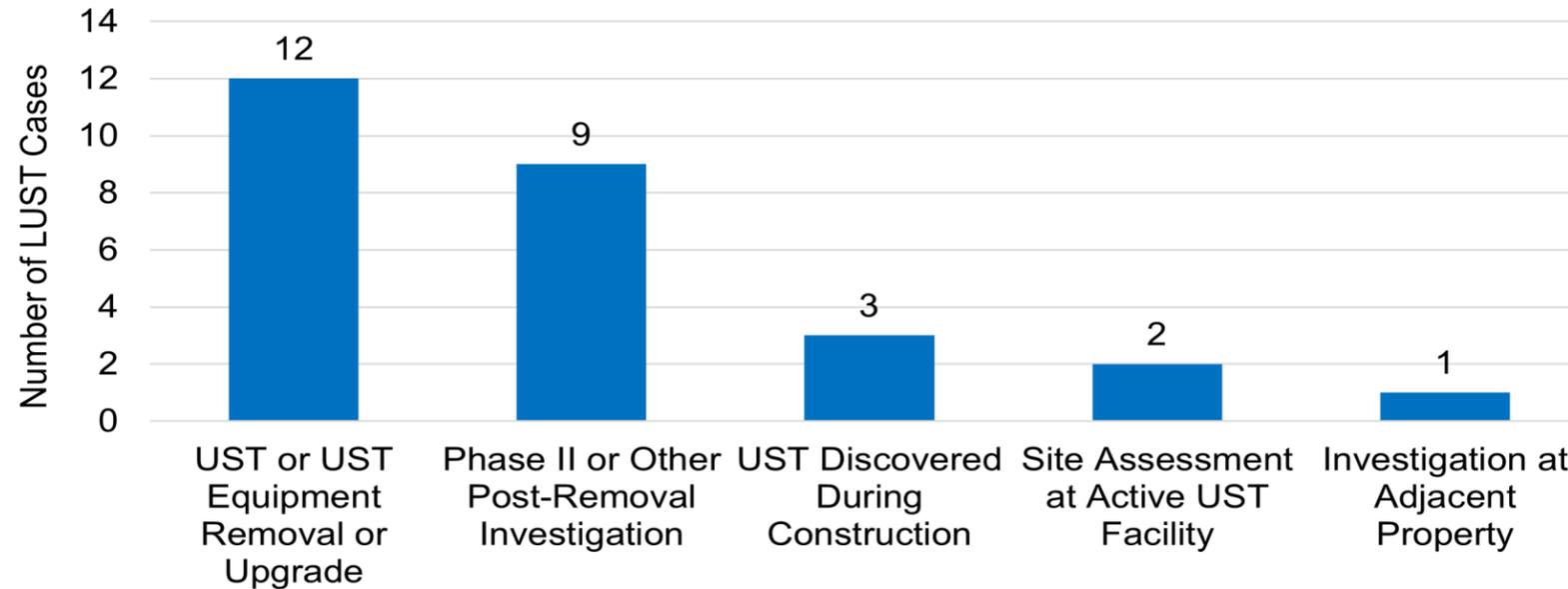
**Return to Compliance by UPA, Sorted by % Facilities Return to Compliance 90 Days after Inspection (page 2 of 2)**

<b>UPA</b>	<b>Percent of Facilities Inspected</b>	<b>Number of Routine Inspections</b>	<b>Number of Priority Violations</b>	<b>Number of Facilities w Priority Violations</b>	<b>Facilities w Priority Violations, RTC Same Day</b>	<b>Facilities w Priority Violations, RTC after 30 days</b>	<b>Facilities w Priority Violations, RTC after 60 days</b>	<b>Facilities w Priority Violations, RTC after 90 days</b>	<b>Facilities w Priority Violations RTC by April 2022</b>	<b>Formal Enforcements Initiated</b>
San Bernardino County Fire Department	100%	837	659	416	97 (23%)	157 (38%)	200 (48%)	226 (54%)	266 (64%)	48
Sacramento County Environmental Management	98%	493	596	283	98 (35%)	126 (45%)	144 (51%)	155 (55%)	193 (68%)	8
Bakersfield City Fire Department	97%	156	225	102	20 (20%)	34 (33%)	46 (45%)	56 (55%)	81 (79%)	9
Ventura City Fire Department	98%	48	39	25	7 (28%)	12 (48%)	12 (48%)	14 (56%)	17 (68%)	0
Alameda County Environmental Health	98%	238	481	172	42 (24%)	62 (36%)	84 (49%)	97 (56%)	108 (63%)	6
San Benito County Health Department	100%	22	10	7	0 (0%)	2 (29%)	3 (43%)	4 (57%)	6 (86%)	0
Tuolumne County Environmental Health	100%	33	33	21	4 (19%)	9 (43%)	12 (57%)	12 (57%)	14 (67%)	0
Orange County Environmental Health	96%	732	527	313	73 (23%)	128 (41%)	155 (50%)	183 (58%)	211 (67%)	2
Humboldt County Division of Environmental Health	97%	71	60	35	12 (34%)	17 (49%)	21 (60%)	21 (60%)	23 (66%)	0
Contra Costa County Health Services Department	97%	403	394	223	70 (31%)	110 (49%)	129 (58%)	138 (62%)	162 (73%)	13
Butte County Environmental Health	96%	98	204	74	27 (36%)	45 (61%)	46 (62%)	46 (62%)	53 (72%)	0
Healdsburg/Sebastopol JPA	100%	14	12	8	5 (63%)	5 (63%)	5 (63%)	5 (63%)	5 (63%)	0
Nevada County Environmental Health	100%	35	46	16	0 (0%)	9 (56%)	10 (63%)	10 (63%)	12 (75%)	4
Oxnard Fire Department	96%	48	23	19	6 (32%)	11 (58%)	11 (58%)	12 (63%)	13 (68%)	0
Siskiyou County Community Development	81%	29	16	11	1 (9%)	4 (36%)	6 (55%)	7 (64%)	8 (73%)	4
El Dorado County Environmental Management	95%	73	101	50	10 (20%)	24 (48%)	30 (60%)	33 (66%)	35 (70%)	0
Glendale City Fire Department	98%	59	41	24	5 (21%)	11 (46%)	14 (58%)	16 (67%)	18 (75%)	0
Kings County Environmental Health	95%	84	81	42	15 (36%)	24 (57%)	28 (67%)	28 (67%)	29 (69%)	0
Sutter County Environmental Health	93%	41	20	12	4 (33%)	6 (50%)	8 (67%)	8 (67%)	9 (75%)	0
Sonoma County Fire Prevention and Hazmat	97%	75	40	28	7 (25%)	11 (39%)	14 (50%)	19 (68%)	23 (82%)	1
Shasta County Environmental Health	100%	120	151	79	26 (33%)	38 (48%)	49 (62%)	54 (68%)	60 (76%)	5
Berkeley City Toxics Management Division	100%	31	31	16	6 (38%)	7 (44%)	10 (63%)	11 (69%)	13 (81%)	0
Livermore-Pleasanton FD	100%	76	48	32	9 (28%)	12 (38%)	18 (56%)	22 (69%)	26 (81%)	0
Calaveras County Environmental Health	91%	30	16	13	4 (31%)	4 (31%)	7 (54%)	9 (69%)	9 (69%)	0
San Joaquin County Environmental Health	100%	266	448	201	20 (10%)	103 (51%)	132 (66%)	140 (70%)	154 (77%)	6
Anaheim City Fire Department	97%	113	80	50	20 (40%)	25 (50%)	30 (60%)	35 (70%)	44 (88%)	0
Yolo County Environmental Health	102%	95	46	30	9 (30%)	14 (47%)	19 (63%)	21 (70%)	26 (87%)	0
Fremont City Fire Department	98%	63	70	33	11 (33%)	16 (48%)	23 (70%)	24 (73%)	29 (88%)	0
Imperial CUPA - DTSC	97%	77	247	76	5 (7%)	23 (30%)	47 (62%)	56 (74%)	72 (95%)	6
Orange City Fire Department	99%	68	36	23	6 (26%)	12 (52%)	17 (74%)	18 (78%)	20 (87%)	0
San Diego County Department of Environmental	85%	838	520	362	167 (46%)	256 (71%)	275 (76%)	285 (79%)	298 (82%)	9
Placer County Environmental Health	100%	88	139	61	26 (43%)	39 (64%)	47 (77%)	49 (80%)	58 (95%)	2
Santa Rosa City Fire Department	98%	53	46	31	12 (39%)	17 (55%)	22 (71%)	25 (81%)	28 (90%)	0
Santa Barbara County Environmental Health	100%	148	86	57	22 (39%)	39 (68%)	44 (77%)	46 (81%)	49 (86%)	4
Long Beach Environmental Health	100%	147	87	51	17 (33%)	30 (59%)	37 (73%)	42 (82%)	45 (88%)	18
Napa County Department of Environmental	98%	44	42	23	10 (43%)	16 (70%)	19 (83%)	19 (83%)	20 (87%)	0
Ventura County Environmental Health	99%	161	183	102	40 (39%)	71 (70%)	80 (78%)	86 (84%)	88 (86%)	0
San Luis Obispo County Environmental Health	100%	106	130	65	18 (28%)	32 (49%)	52 (80%)	57 (88%)	60 (92%)	0
San Leandro City	98%	50	14	9	3 (33%)	6 (67%)	8 (89%)	8 (89%)	9 (100%)	1
Roseville City Fire Department	100%	48	30	20	11 (55%)	17 (85%)	18 (90%)	18 (90%)	19 (95%)	0
El Segundo City Fire Department	100%	21	21	13	3 (23%)	5 (38%)	10 (77%)	12 (92%)	13 (100%)	0
Alpine County Health Department	100%	3	1	1	1 (100%)	1 (100%)	1 (100%)	1 (100%)	1 (100%)	0
Petaluma City Fire Department	79%	15	7	4	1 (25%)	3 (75%)	4 (100%)	4 (100%)	4 (100%)	0
San Luis Obispo City Fire Department	100%	23	16	6	1 (17%)	4 (67%)	6 (100%)	6 (100%)	6 (100%)	0
<b>Statewide Totals</b>	<b>94%</b>	<b>13414</b>	<b>16155</b>	<b>6917</b>	<b>1408 (20%)</b>	<b>2476 (36%)</b>	<b>3073 (44%)</b>	<b>3404 (49%)</b>	<b>4061 (59%)</b>	<b>274</b>

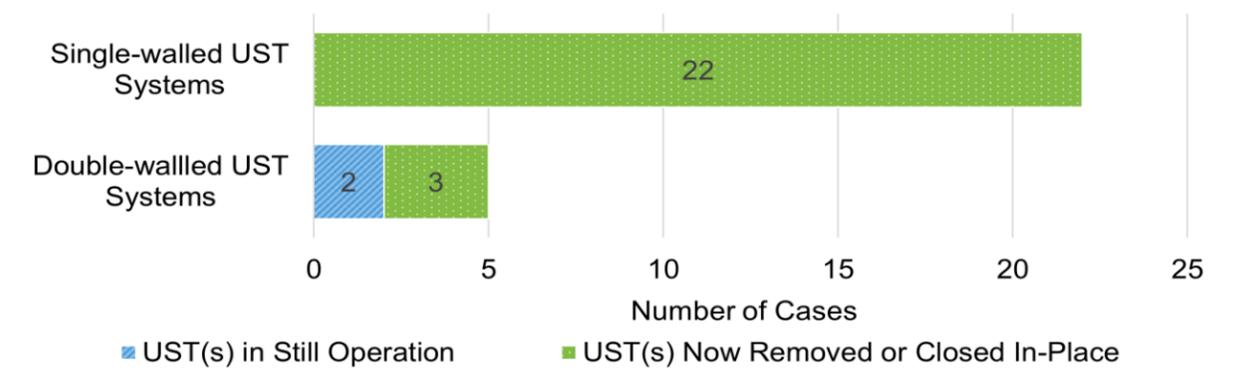
### New Leaking Underground Storage Tank Cleanup Cases

GeoTracker leaking UST (LUST) data indicates that 27 new petroleum UST cleanup cases were opened, based on releases reported by UST owners, operators, and regulators between January and December 2021.

#### How Release was Discovered

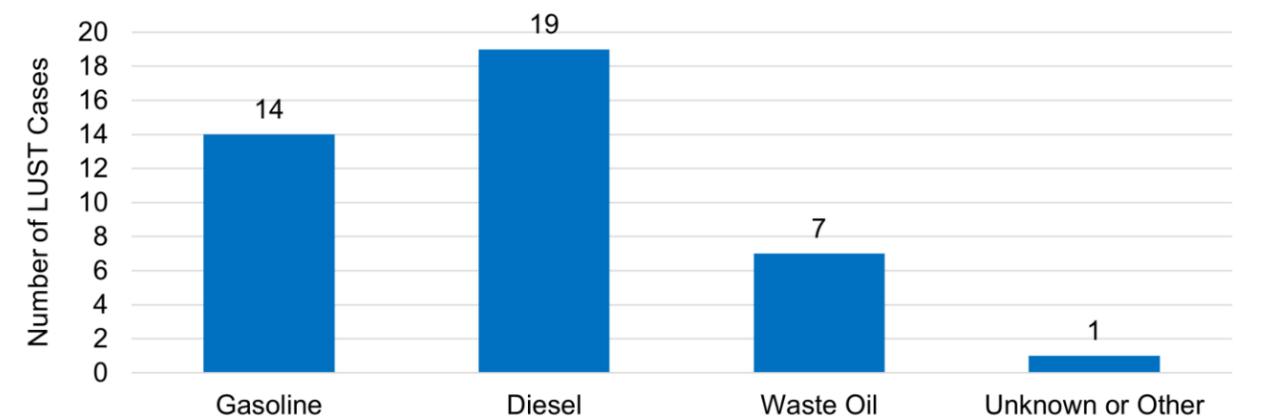


#### Construction Type & Status of UST Systems with a Release



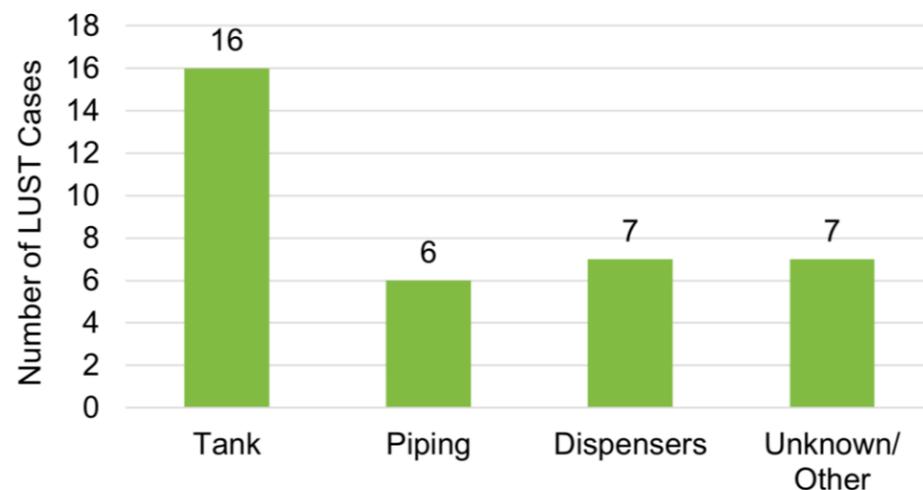
\* Construction type and status are for the one or more UST systems involved in the release

#### Substance Released



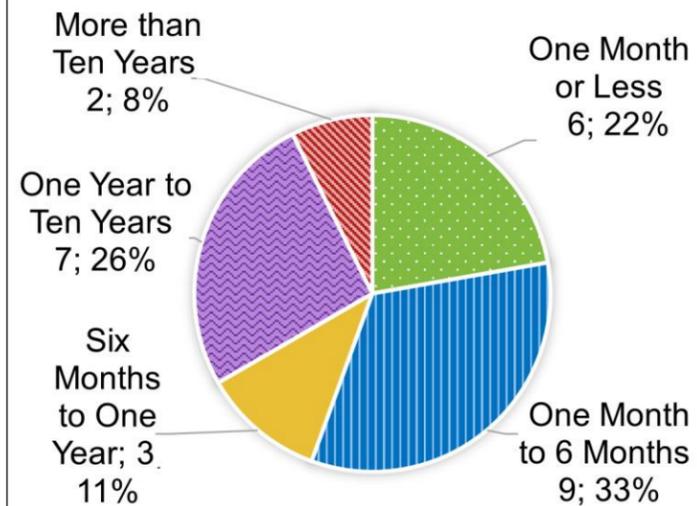
Note: In some cases, more than one substance was identified. Therefore, the total number for this chart does not reflect the total number of cases.

#### Source of Release

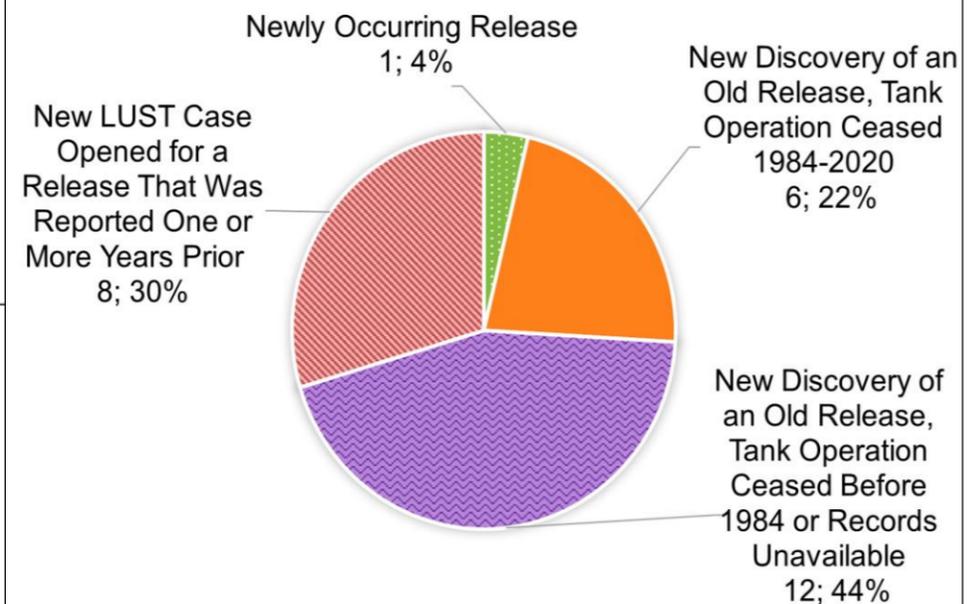


Note: In some cases, more than one component of the UST system is identified as the source. Therefore, the total number for this chart does not reflect the total number of cases.

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



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



Please Reference Appendix A for Details on Individual Releases

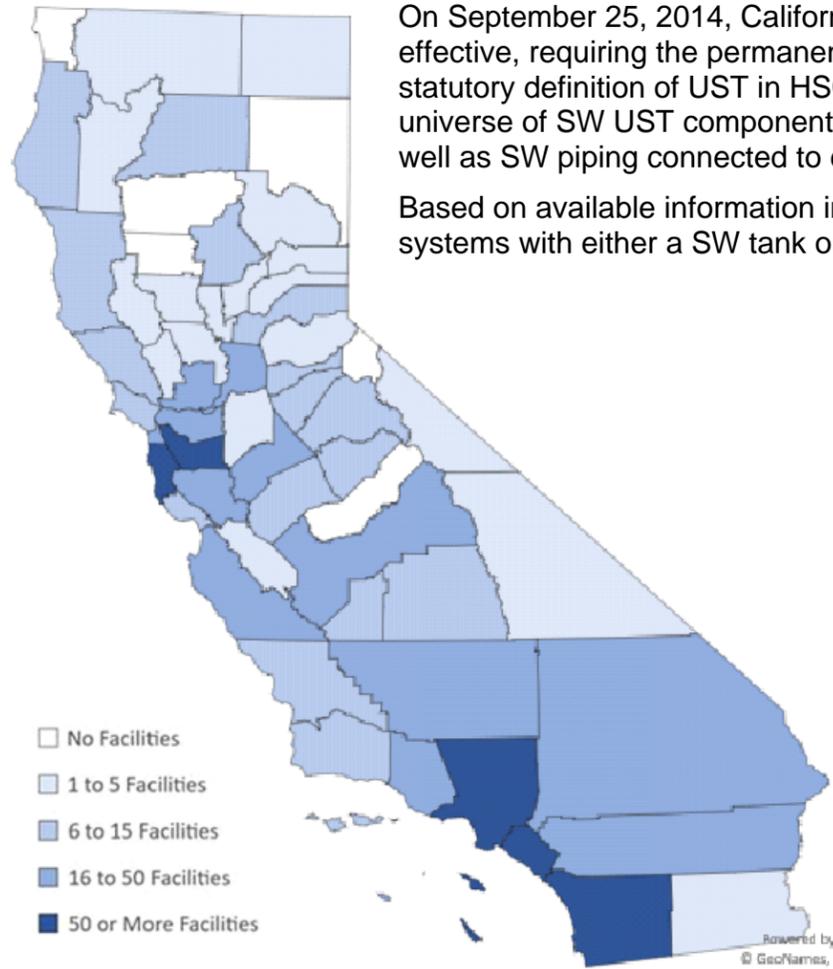
**8%**

DW UST Closures or Upgrades Resulting in Discovery of a Release (63/770 Facilities Since January 1, 2017)

**23%**

SW UST Closures or Upgrades Resulting in Discovery of a Release (133/571 Facilities Since January 1, 2017)

## Single-Walled USTs



On September 25, 2014, California Health and Safety Code (HSC), Section 25292.05 became effective, requiring the permanent closure of single-walled (SW) USTs by December 31, 2025. The statutory definition of UST in HSC Section 25281 includes connected piping. As a result, the universe of 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 April 1, 2022, California has a total of 2,373 UST systems with either a SW tank or SW piping remaining at 962 facilities.

	SW Tank	DW Tank SW Piping	Total
USTs	1,838	535	2,373
Facilities	666	312	962

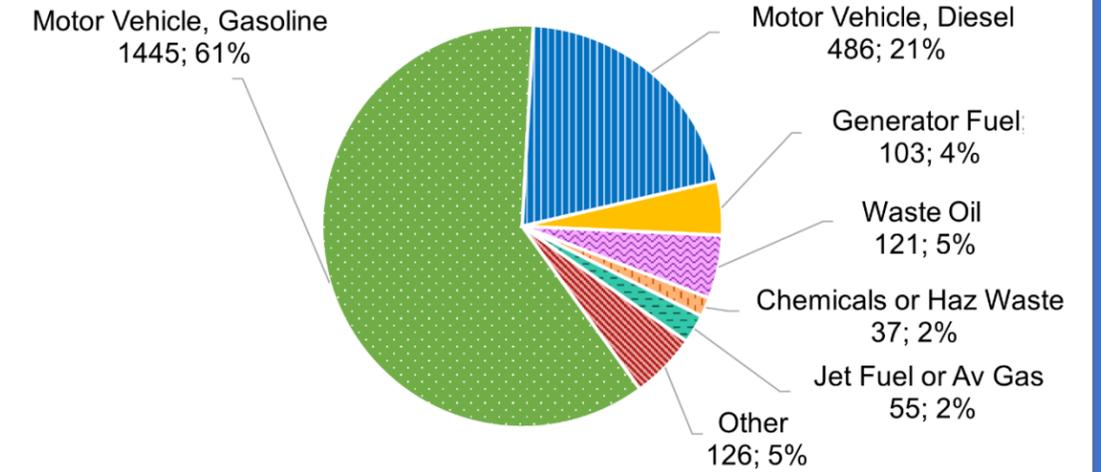
Total Facilities (962) is less than sum of SW Tank and DW Tank SW Piping (978) because some of the facilities have both types of systems.

Year	SW Tanks	DW Tanks SW Piping	Total
2017	211	24	235
2018	129	32	161
2019	140	31	171
2020	170	20	190
2021	116	13	129
2022	14	5	19

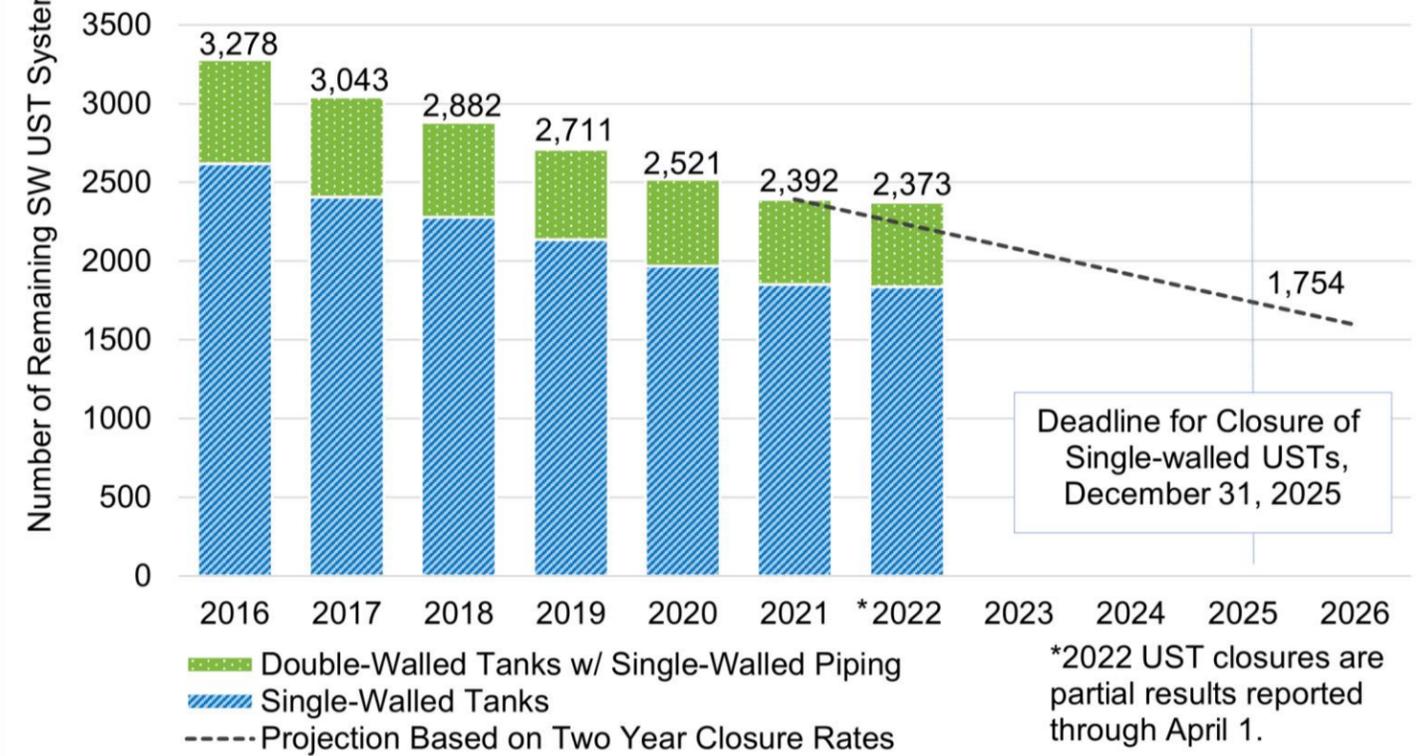
CERS data continues to improve, so the total USTs and total closures for past periods in this report may not match previous reports.

Number of Single-Walled Facilities by County

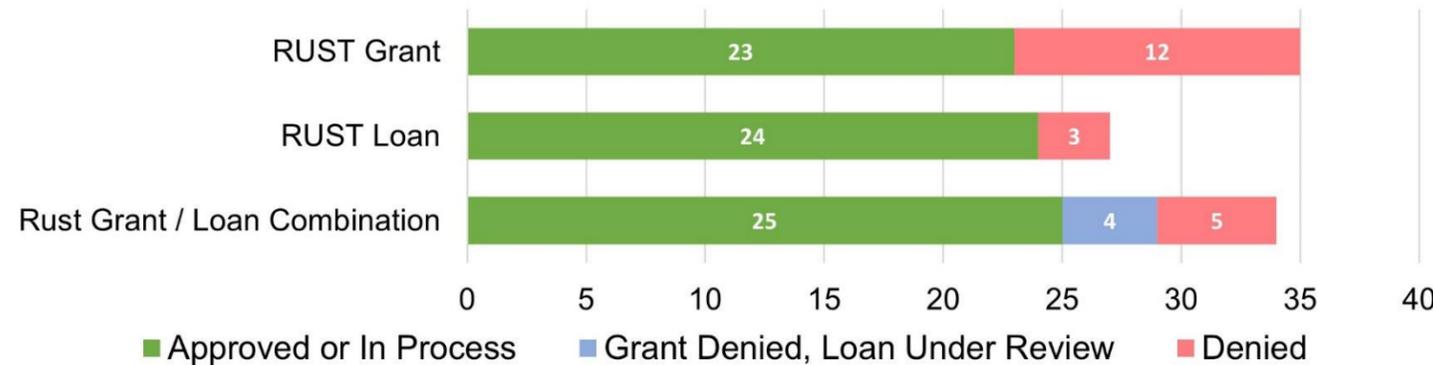
## Single-Walled UST System Use/Contents



## Single-Walled UST Closure Progress



## RUST Applications for Single-Walled UST Closure



Between January 2019 and December 2021, 96 RUST applications for SWT closure were submitted. This chart does not show additional RUST applications unrelated to SWT closure.

## RUST Program

The Replacing, Removing, or Upgrading UST (RUST) program can help single-walled UST owners fund the removal and/or replacement of their single walled USTs. The program offers grant and loan options.

**39%** of single-walled UST Facilities have Unresolved Priority Violations  
 Facilities with unresolved violations are not eligible for RUST funding assistance.  
 (378/962 Facilities)

**Single-Walled UST Systems by UPA, Sorted by Number of Single-Walled UST Facilities (page 1 of 2)**

<b>UPA</b>	<b>Total Number of Single-Walled UST Facilities</b>	<b>Single-Walled UST Facilities with Unresolved Priority Violations in past 18 months</b>	<b>Total Number of Single-Walled UST Systems</b>	<b>Number of Single-Walled Tanks</b>	<b>Number of Double-Walled Tanks w/ Single-Walled Piping</b>
Los Angeles City Fire Department	96	41	218	143	75
Los Angeles County Department of Public Works	84	13	204	163	41
San Diego County Department of Environmental Health	61	3	167	118	49
Contra Costa County Health Services Department	54	33	134	109	25
San Mateo County Environmental Health	51	22	118	91	27
Alameda County Environmental Health	47	16	127	120	7
Orange County Environmental Health	46	3	105	86	19
San Francisco City & County Public Health Department	45	22	89	76	13
Fresno County Department of Public Health	26	0	79	58	21
Kern County Environmental Health Services Department	25	17	71	68	3
Santa Clara County Environmental Health	22	3	39	24	15
Sacramento County Environmental Management Dept	22	6	55	33	22
Stanislaus County Environmental Resources	21	18	74	74	0
Monterey County Health Department	19	0	54	49	5
San Bernardino County Fire Department	18	6	47	30	17
Solano County Environmental Health	16	0	34	15	19
Riverside County Department of Environmental Health	15	2	44	16	28
Marin County Dept of Public Works, Waste Mgmt, CUP	13	5	30	26	4
Bakersfield City Fire Department	12	9	31	27	4
Merced County Environmental Health	12	0	29	21	8
Amador County Environmental Health	11	9	37	28	9
Ventura County Environmental Health	11	1	24	16	8
Shasta County Environmental Health	11	0	34	26	8
Calaveras County Environmental Health	9	0	27	27	0
Santa Clara County Fire Department	9	3	24	23	1
Hayward City Fire Department	9	0	17	13	4
Mendocino County Environmental Health	9	0	26	19	7
Kings County Environmental Health	8	0	23	23	0
Tulare County Environmental Health	8	1	20	14	6
Anaheim City Fire Department	8	0	16	9	7
Mariposa County Public Health Department	8	1	14	7	7
San Luis Obispo County Environmental Health	7	1	13	11	2
Santa Cruz County Environmental Health	7	3	19	18	1
San Leandro City	7	0	12	7	5
Burbank Fire Department	6	2	10	6	4
Berkeley City Toxics Management Division	6	2	13	10	3
Tuolumne County Environmental Health	6	0	11	7	4
Livermore-Pleasanton FD	6	1	16	13	3
Imperial CUPA - DTSC	5	3	10	9	1
Butte County Environmental Health	5	0	14	13	1
Long Beach Environmental Health	5	0	14	11	3
Santa Barbara County Environmental Health Services	5	1	10	9	1
Humboldt County Division of Environmental Health	5	3	14	14	0
Ventura City Fire Department	5	0	13	13	0
El Dorado County Environmental Management	4	0	10	9	1
<b>Total</b>	<b>962</b>	<b>270</b>	<b>2,373</b>	<b>1,838</b>	<b>535</b>

**Single-Walled UST Systems by UPA, Sorted by Number of Single-Walled UST Facilities (page 1 of 2)**

<b>UPA</b>	<b>Total Number of Single-Walled UST Facilities</b>	<b>Single-Walled UST Facilities with Unresolved Priority Violations in past 18 months</b>	<b>Total Number of Single-Walled UST Systems</b>	<b>Number of Single-Walled Tanks</b>	<b>Number of Double-Walled Tanks w/ Single-Walled Piping</b>
Orange City Fire Department	4	0	9	7	2
Sonoma County Fire Prevention and Hazmat	4	3	9	9	0
Sunnyvale Department of Public Safety	4	0	9	6	3
Santa Clara City Fire Department	4	4	8	7	1
Torrance Fire Department	4	4	8	6	2
Plumas County Environmental Health	4	3	14	14	0
San Joaquin County Environmental Health	4	0	4	0	4
Fremont City Fire Department	3	0	6	4	2
Glendale City Fire Department	3	0	3	0	3
El Segundo City Fire Department	3	0	5	2	3
Vernon Health & Environmental Control Department	3	0	9	0	9
Pasadena Fire Department	3	0	7	3	4
Inyo County Department of Environmental Health Services	3	1	7	7	0
Lake County Environmental Health	3	0	7	7	0
Placer County Environmental Health	2	2	6	6	0
Yuba County Environmental Health Department	2	0	11	8	3
Santa Rosa City Fire Department	2	1	5	5	0
Siskiyou County Community Development	2	0	2	0	2
Roseville City Fire Department	2	1	6	6	0
Sutter County Environmental Health	2	0	3	2	1
Colusa County Health and Human Services	2	0	6	6	0
Sierra County Human Services Department	2	0	7	7	0
Mono County Health Department	1	0	1	0	1
Napa County Department of Environmental Management	1	0	2	2	0
Gilroy City Fire Department	1	0	3	3	0
Yolo County Environmental Health	1	1	5	5	0
Petaluma City Fire Department	1	0	3	3	0
Santa Monica Fire Department	1	0	4	0	4
San Benito County Health Department	1	0	4	4	0
Mountain View Fire Department	1	0	2	2	0
Trinity County - DTSC	1	0	2	0	2
Madera County Environmental Health	1	0	1	0	1
Modoc County Environmental Health	1	0	3	3	0
Santa Fe Springs Fire-Rescue	0	0	0	0	0
Nevada County Environmental Health	0	0	0	0	0
Union City Environmental Programs	0	0	0	0	0
San Luis Obispo City Fire Department	0	0	0	0	0
Del Norte Environmental Health Division	0	0	0	0	0
Oxnard Fire Department	0	0	0	0	0
Alpine County Health Department	0	0	0	0	0
Glenn County Air Pollution Control District	0	0	0	0	0
Healdsburg/Sebastopol JPA	0	0	0	0	0
Lassen County Environmental Health	0	0	0	0	0
Tehama County Environmental Health	0	0	0	0	0
<b>Total</b>	<b>962</b>	<b>270</b>	<b>2373</b>	<b>1838</b>	<b>535</b>

## Appendix A: Confirmed UST Releases, January – December 2021

Throughout California, 27 releases were confirmed and reported from federally regulated petroleum USTs between January and December 2021. This does not account for releases from non-petroleum USTs (e.g., chlorinated solvent USTs), nor does it account for releases from federally exempt USTs (e.g., residential heating oil USTs).

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### **Newly Occurring Release – 1 case**

Tulare County Environmental Health (1 case)

#### **1. Walmart Distribution Center 6021      1300 South F Street, Porterville**

**Substance: Diesel**

**Source: Piping**

The release was discovered when a double-walled product pipe was inadvertently damaged during the repair of a concrete dispenser island (December 2021). Approximately 2 cubic yards of soil were excavated from beneath the product line. Soil samples taken from the site showed elevated concentrations of petroleum constituents consistent with a release of diesel. Tulare County Environmental Health referred the case to the Central Valley Regional Water Quality Control Board (January 2022). The Regional Water Board requested a work plan from the RP (January 2022), which was submitted (February 2022) and conditionally approved (March 2022). The site assessment report (May 2022) recommended additional site assessment to complete the CSM prior to closing the site under LTCP criteria. The site is a

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warehouse distribution center with two warehouse buildings, a truck maintenance building, and a service bay with fuel dispensers.

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## New Discoveries (Old Release) – 24 Cases

Los Angeles City Fire Department (7 cases)

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### 2. 2215 N Gaffey Street LLC

2215 Gaffey St N, San Pedro

**Substance: Gasoline, Diesel, Waste Oil**

**Source: Tank**

The release was discovered when soil samples taken during the removal of four USTs from the site showed elevated concentrations of petroleum constituents (April 1999). Two (2) 10,000-gallon gasoline USTs, one (1) 5,000-gallon diesel UST, and one (1) 500-gallon waste oil UST were removed from the site. The gasoline USTs were noted to be in poor condition, with holes and stained soil underneath at the time of removal. The Los Angeles City Fire Department referred the case to the Los Angeles Regional Water Quality Control Board (September 2021). The Regional Water Board requested additional information from the RP (September 2021), which was submitted (October 2021). A pre-closure notification for the site was posted (January 2022). The site was developed for use as a city school bus yard in 1959. A landscaping and green waste recycling company purchased the property in 1970.

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### 3. Cemcoat, Inc.

4928 Jefferson Blvd W, Los Angeles

**Substance: Unknown**

**Source: Unknown**

The release was discovered during a Phase II ESA completed after a file review for the site found that a 1,000-gallon UST was removed from the site (April 1982), but no UST closure/soil sampling reports could be found. Soil samples collected from the site (October 2018), showed high concentrations of TPHg, BTEX, and PCE. Groundwater samples collected at the site detected concentrations of benzene above the WQO of 5 ug/L. TCE was also detected in the groundwater. The Los Angeles Regional Water Quality Control Board Site Cleanup Program initiated the property review due to concerns about potential historical use of PFAS. While an NFA letter was issued for the PFAS investigation (May 2021), Regional Water Board personnel referred the case to the LUST Program (June 2021) to evaluate petroleum UST impacts. The Regional Water Board sent the RP a letter with a work plan requirement (October 2021). A work plan was submitted and approved (November 2021). The results of the site investigation work plan were submitted to the Regional Water Board (January 2022) and a pre-closure notification was posted on GeoTracker (February 2022). The site is currently a plating company, occupied by an office building and a manufacturing building.

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<b>4. Commercial Property</b>	<b>200 Vermont Ave, Los Angeles</b>
<b>Substance: Diesel, Waste Oil</b>	<b>Source: Tank</b>
<p>The release was discovered when soil samples taken from the excavation pits of two (2) USTs that were discovered during site excavation activities showed elevated concentrations of TPH (May and June 2021). One (1) 1,000-gallon single-walled diesel UST and one (1) 220-gallon single-walled waste oil UST were found heavily damaged and in poor condition. LA City Fire Department referred the case to the Los Angeles Regional Water Quality Control Board (December 2021). The Regional Water Board requested additional information from the RP (January 2022). The site was historically used for automobile sales, repair, and service facilities between 1924 and 2018. Starting in 2018, the structures at the site were demolished, and the site is undergoing redevelopment into a multi-story residential and commercial building with two levels of subterranean parking.</p>	
<b>5. Former Gasoline Station</b>	<b>11340 Magnolia Blvd, N Hollywood</b>
<b>Substance: Gasoline</b>	<b>Source: Unknown</b>
<p>The release was discovered during a Phase II ESA completed after a Phase I ESA showed that a retail gasoline station operated at the site with no records of UST closure or post-closure confirmation sampling. Soil and soil vapor sampling (April 2020) detected a release of petroleum hydrocarbons. A site characterization report determined that the release did not extend more than 40 feet bgs in the vicinity of the USTs (August 2020). The estimated depth to groundwater at the site is approximately 105 feet bgs. The RP’s consultant requested closure of the case under LTCP criteria (November 2020). The Los Angeles City Fire Department referred the case to the Los Angeles Regional Water Quality Control Board (January 2021). The Regional Water Board issued a public notice to close the case (June 2021), and the case was subsequently closed (September 2021). The site is currently a 7-Eleven convenience mart and associated parking lot.</p>	
<b>6. Former Gas Station &amp; Automotive Repair Shop</b>	<b>2400 Florence Ave W, Los Angeles</b>
<b>Substance: Gasoline, Diesel</b>	<b>Source: Dispensers, Piping</b>
<p>The release was discovered when soil samples collected near former fuel dispenser islands and associated piping during a Phase II ESA (February 2021) showed elevated concentrations of TPHd and TPHg. The site was used for commercial gas stations from 1938 until the 1980s, and an auto repair and body shop from the 1980s to 2010. Five USTs were removed from the site (July 2006), including two (2) 5,000-gallon gasoline USTs, one (1) 2,500-gallon diesel UST, one (1) 1,000-gallon waste oil UST, and one (1) 300-gallon waste oil UST. Unspecified contamination was identified during the subsurface investigation when the USTs were</p>	

removed. The Los Angeles City Fire Department sent a letter to the RP indicating an unauthorized release had occurred at the site and that further investigation was necessary (March 2009). The Los Angeles City Fire Department referred the case to the Los Angeles Regional Water Quality Control Board (December 2021). The Regional Water Board requested additional information and a work plan from the RP (December 2021). The site investigation work plan was submitted and approved by the Regional Water Board (February 2022). The site is currently vacant, with a 1,300 square foot commercial building and asphalt parking lot.

**7. Jefferson Property Owner, LLC**

**5231 Jefferson Blvd W, Los Angeles**

**Substance: Gasoline**

**Source: Unknown**

The release was discovered during a site assessment conducted prior to site redevelopment. Soil, groundwater, and soil vapor samples found elevated concentrations of TPH and BTEX associated with a release of petroleum hydrocarbons (February 2020). The site consists of four parcels, one of which operated as a retail service station and auto repair garage from approximately 1924 to the early 1980s. Three (3) USTs containing gasoline, and one (1) containing waste oil, were located at the site, and at least three were reportedly removed by the 1980s. The Los Angeles City Fire Department referred the case to the Los Angeles Regional Water Quality Control Board (May 2021). The Regional Water Board sent a letter to the RP with a work plan requirement (July 2021), which was submitted and approved (August 2021). A risk assessment report was submitted (September 2021), followed by a site assessment report (November 2021). The Regional Water Board issued a public notice to close the case (December 2021) and the case was closed (April 2022). The site is currently vacant and being redeveloped into a commercial building and subterranean parking structure.

**8. Onni Santa Monica, LP**

**6901 Santa Monica Blvd, Los Angeles**

**Substance: Gasoline**

**Source: Unknown**

The release was discovered during a Phase II ESA (December 2014) conducted to facilitate redevelopment. Elevated concentrations of petroleum hydrocarbons were detected in soil samples. Part of the current property previously operated as a bulk oil storage facility and retail service station. Another part of the current property operated as a tire shop, for which the Los Angeles Regional Water Quality Control Board closed a LUST case in 1997. USTs were removed from the current site footprint in 1954 (one (1) 2,000-gallon gasoline UST and two (2) 400-gallon waste oil USTs) and 1996 (two (2) 4,000-gallon gasoline USTs and one (1) 550-gallon waste oil UST). The Los Angeles City Fire Department referred the case to the Regional Water Board (February 2021), and the RP submitted a soil and water investigation work plan

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(April 2021), which was approved by the Regional Water Board (April 2021). The site assessment report and a request for site closure were submitted to the Regional Water Board (July 2021). The Regional Water Board issued a public notice to close the case (February 2022). The site is currently a vacant lot undergoing redevelopment into a mixed use commercial residential building with a two-story subterranean parking garage.

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Los Angeles County Department of Public Works (6 cases)

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**9. AVS Properties LLC**

**2439 Lincoln Ave, Altadena**

**Substance: Diesel, Waste Oil**

**Source: Unknown**

The release was discovered when soil samples taken during a Phase II site investigation (November 2019) showed elevated concentrations of petroleum constituents in the former tank excavation area. Four (4) USTs were previously removed from the site (August 1996); one (1) 8,000-gallon gasoline UST, one (1) 8,000-gallon diesel UST, one (1) 6,000-gallon gasoline UST, and one (1) 550-gallon waste oil UST. The Los Angeles County Department of Public Works referred the case to the Los Angeles Regional Water Quality Control Board (August 2021). The Regional Water Board requested additional information, which was submitted by the RP (September 2021). A pre-closure notification was posted (January 2022) and the case was closed (April 2022). The site is a commercial gas station and mechanic shop.

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**10. Karen Hitchcock**

**17036 Industry Place, La Mirada**

**Substance: Diesel**

**Source: Tank**

The release was discovered when a 10,000-gallon single-walled diesel UST and dispenser island were removed from the site (May 2021). The tank was noted to be in poor condition at the time of removal, with several holes from corrosion on the bottom. Soil under the UST was stained, and a petroleum odor was noticeable. Soil samples collected from the tank excavation pit showed elevated concentrations of TPHd and TPHg. The Los Angeles County Department of Public Works referred the case to the Los Angeles Regional Water Quality Control Board (July 2021). The Regional Water Board issued a directive for a work plan and request for additional information (July 2021). The work plan was submitted to the Regional Water Board (August 2021) and approved (September 2021). The subsurface investigation was completed (November 2021) and a pre-closure letter was issued (January 2022). The property is currently a recycling facility.

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**11. Rashid Shell Former**

**2138 W Century Blvd, Los Angeles**

**Substance: Diesel, Waste Oil**

**Source: Tank**

The release was discovered during the removal of a 550-gallon waste oil UST from the site (May 2018). Soil samples collected from beneath the UST found elevated concentrations of

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TPHd and TPHmo. The Los Angeles County Department of Public Works referred the case to the Los Angeles Regional Water Quality Control Board (April 2021). The Regional Water Board requested additional information from the RP (May 2021), which the RP submitted (September 2021). The Regional Water Board issued a public notice to close the case (November 2021) and closed the case (January 2022). The site is an active retail fuel station.

**12. R & L Carriers**

**1220 Washington Blvd, Montebello**

**Substance: Diesel, Waste Oil**

**Source: Tank, Piping**

The release was discovered during the removal of one (1) 20,000-gallon diesel UST and one (1) 500-gallon waste oil UST from the site (October 2020). Soil samples taken from the tank excavation pit and from below the product lines found elevated concentrations of TPHd, TPHmo and BTEX. Approximately 77 cubic yards of soil were excavated and disposed off-site during the removal of the USTs. Los Angeles County Department of Public Works referred the case to the Los Angeles Regional Water Quality Control Board (June 2021), which sent the RP a letter requesting additional information and the submittal of a work plan (July 2021). The work plan and additional information were submitted to the Regional Water Board (August 2021) and subsequently approved (November 2021). The site is currently a warehouse and freight shipping yard.

**13. South Pasadena Automotive, Inc**

**1100 Huntington Dr, South Pasadena**

**Substance: Gasoline, Waste Oil**

**Source: Tank, Dispensers**

The release was discovered when elevated concentrations of petroleum constituents were found in soil samples collected beneath two USTs, dispensers, and associated piping. Two (2) 6,000-gallon gasoline USTs, two (2) 4,000-gallon gasoline USTs, and one (1) 300-gallon waste oil UST were removed from the site (December 1998). The Los Angeles County Department of Public Works referred the case the Los Angeles Regional Water Quality Control Board (November 2021). The Regional Water Board requested additional information and site investigation work plan from the RP (February 2022). The site investigation work plan was submitted to the Regional Water Board (April 2022). The site was formerly an auto dealership or commercial gas station and is currently used as an auto repair shop.

**14. United Oil 102**

**1744 Rosecrans Ave W, Gardena**

**Substance: Gasoline**

**Source: Dispensers**

The release was discovered during the removal of a dispenser and under-dispenser containment sump at the site when soil samples detected elevated levels of TPHg and BTEX (March 2019). The Los Angeles County Department of Public Works referred the case to the Los Angeles Regional Water Quality Control Board (April 2021). The RP submitted a

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preliminary site assessment work plan to the Regional Water Board, which was approved (August 2021). The RP then submitted a site assessment report (December 2021). The site is an active retail fuel station.

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Alameda County Department of Environmental Health (3 cases)

**15. 1919 Market St**

**1919 Market St, Oakland**

**Substance: Gasoline**

**Source: Tank**

An abandoned UST was discovered during demolition activities for site development (January 2021). A sample of the UST contents was collected, showing the presence of TPHg, BTEX and relatively small amounts of TPHd. Corrosion and holes were observed in the UST upon removal, and there was significant hydrocarbon odor and staining in the surrounding soil. The UST was approximately 500 gallons in size. Additional soil samples were collected to delineate the extent of the release. Alameda County Department of Environmental Health approved a work plan to over-excavate approximately 20 cubic yards of soil (January 2021). The site is a mixed-use building consisting of residential apartments and some commercial businesses.

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**16. Rolls Royce Test Cell Facility**

**6701 Old Earhart Road, Oakland**

**Substance: Jet Fuel**

**Source: Piping**

The release was discovered during the removal of three (3) jet fuel UST systems, including two (2) 8,000-gallon USTs and one (1) 10,000-gallon UST. Elevated concentrations of TPH were detected in soil samples collected beneath above-ground fuel lines associated with the 10,000-gallon UST (December 2019). The RP requested case closure in the UST Removal Report (February 2020). Alameda County Department of Environmental Health posted the public notice for case closure (April 2022). The site is located on the grounds of the Oakland International Airport.

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**17. USPS Vehicle Maintenance Facility**

**1675 7<sup>th</sup> Street, Oakland**

**Substance: Diesel**

**Source: Dispenser**

The release was discovered during the removal of three (3) 12,000-gallon diesel USTs, two (2) dispensers, and associated piping from the site (May 2021). Soil staining and petroleum hydrocarbon odors were noted beneath Dispenser 1 during removal. Approximately 12 tons of soil were over-excavated from the site during tank and dispenser removal (May 2021). TPHd was detected at 9,300 mg/kg in a soil sample collected at the bottom of the over-excavated pit at 7 feet bgs. An additional 27 tons of soil were removed from the site (June 2021). Alameda County DEH requested the RP submit a CSM (April 2022). The site is a USPS distribution center and vehicle maintenance facility.

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(2) newly found USTs were removed from the site and approximately 177 cubic yards of soil were over-excavated from the site (April 2021). The San Francisco Bay Regional Water Control Board sent an email to the RP (April 2022) indicating the site does not meet the LTCP criteria. The site is currently a vacant lot undergoing construction.

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Orange County Environmental Health (1 case)

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**21. H&S Energy Products LLC #2002                      2950 Westminster, Seal Beach**

**Substance: Gasoline, Diesel    Source: Tank, Dispenser, Piping**

The release was discovered during the removal of one (1) 10,000-gallon diesel UST and two (2) 10,000-gallon gasoline USTs from the site (January 2021). Two of the USTs were observed to be in good condition during their removal, but the southernmost tank was observed to have a puncture. Prior to the collection of soil samples from underneath the former USTs, the bottom of the UST pit was over-excavated approximately 3 feet, and approximately 445 tons of soil were removed from the site (March 2021). Orange County Environmental Health deemed the case eligible for closure (June 2021), issued a public notice (August 2021), and closed the case (October 2021). The site is an active retail fuel station.

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Sacramento County Environmental Management (1 case)

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**22. 3401 Stockton Blvd Property                      3401 Stockton Blvd, Sacramento**

**Substance: Gasoline, 1,2-DCA    Source: Unknown**

3401 Stockton Blvd operated as a gas station from 1952 to 1980, and three (3) 10,000-gallon gasoline USTs were removed in 1989. Soil samples were collected beneath the USTs in 1989, and no release was detected—but no samples were collected beneath dispenser islands or associated piping. A site assessment at 3400 Stockton Blvd detected gasoline range organics (GRO) and 1,2-DCA in cross-gradient soil and groundwater samples (May 2021). Additional soil vapor and groundwater samples were collected (July and August 2021) and confirmed an off-site source for the groundwater impacts. As a result, Sacramento County Environmental Management Department opened the case for 3401 Stockton Blvd (December 2021). A work plan for site investigation was submitted to GeoTracker (December 2021) and approved by Sacramento County (January 2022). Groundwater samples collected (February 2022) had elevated concentrations of BTEX in MW-3 and MW-4, but the data potentially indicate another former gas station that operated at 3341 Stockton Blvd from 1947 to 1970 is the true source of contamination. Both 3400 and 3401 Stockton Blvd are currently vacant lots proposed for redevelopment into a mixed-use student housing and retail complex.

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San Diego County Department of Environmental Health (1 case)

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**23. SoCal Trucks**

**10460 Mission Gorge Rd, Santee**

**Substance: Gasoline, Diesel**

**Source: Tank, Dispenser, Piping**

The release was discovered during a Phase II ESA when two (2) USTs that had previously been closed in-place were discovered near the driveway of the property (October 2020). Groundwater samples taken in the vicinity of the USTs found elevated concentrations of petroleum hydrocarbons associated with gasoline and diesel fuel (May 2021). The San Diego Regional Water Quality Control Board approved a site assessment report and requested a comparison of the site to LTCP criteria and a work plan if the site did not meet them (November 2021). A revised site assessment report and proposal for additional site investigation was submitted to San Diego County DEH (January 2022) and approved (March 2022). The site is currently a commercial facility that sells and installs truck accessories.

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

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**24. 300 Kansas**

**300 Kansas Street, San Francisco**

**Substance: Diesel**

**Source: Tank**

The release was discovered during removal of a single wall UST approximately 320 gallons in size containing an unknown oil from beneath the sidewalk at the site. The UST was found to be in poor condition and corroded with visible holes upon removal (January 2021). No soil discoloration or petroleum odors were observed in soil underneath the tank. Samples collected from the soil beneath the tank showed a release of TPHd. Approximately four (4) cubic yards of soil were over-excavated from the tank pit (January 2021). Confirmation soil samples collected from the tank pit after the over-excavation reported detectable concentrations of TPHd below ESLs for commercial use. Groundwater was not encountered during site work. San Francisco City & County Department of Public Health issued a public notice (March 2021) and closed the case (May 2021).

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San Mateo County Environmental Health Services (1 case)

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**25. Stone Villa Inn**

**2175 S El Camino Real, San Mateo**

**Substance: Gasoline**

**Source: Unknown**

The release was discovered during a Phase II ESA (April 2021), when soil and groundwater samples taken from the site found elevated concentrations of petroleum constituents, primarily TPHg, TPHd, and BTEX. A gasoline service station operated at the site from approximately 1927 to 1955. It is unknown if the USTs were removed. San Mateo County Environmental Health Services sent the RP a notice of responsibility (May 2021). The RP submitted a work plan for additional site assessment, which San Mateo County approved (June 2021). The site assessment report was subsequently submitted (July 2021). San Mateo

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County issued a public notice (September 2021) and closed the case (November 2021). This site is a motel with associated parking lot and office space.

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Santa Monica Fire Department (1 case)

**26. Santa Monica City Yards**

**2500 Michigan Ave, Santa Monica**

**Substance: Gasoline, Diesel**

**Source: Tank**

The release was discovered during the removal of four (4) double-walled USTs from the site; one (1) 6,500-gallon gasoline UST, one (1) 6,000-gallon gasoline UST, and two (2) 6,500-gallon diesel USTs and associated fuel dispensers and piping from the site (June 2021). The USTs were noted to be in good condition during the removal, with no visible holes or corrosion. Elevated concentrations of TPHd and TPHg were found in soil samples collected from the tank excavation pit. The Santa Monica City Fire Department referred the case the Los Angeles Regional Water Quality Control Board (July 2021). The Regional Water Board requested additional information and a site investigation work plan (September 2021). The work plan was submitted (January 2022) and conditionally approved by the Regional Water Board (February 2022). The former USTs were used to fuel City of Santa Monica vehicles, and the City still operates a waste transfer station and a fire department training center (among other uses) at the property.

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Shasta County Environmental Health Department (1 case)

**27. Former Artistic Body and Paint**

**553 North Market Street, Redding**

**Substance: Diesel, Waste Oil**

**Source: Tank**

The release was discovered during the removal of two (2) USTs from the site (November 2021). Both USTs were single-walled USTs approximately 1,000-gallons in size. The contents of the northern UST were unknown, but the southern UST was tagged for 100 octane aviation fuel, likely used for high-performance or racing vehicles. The USTs were discovered during a Phase I site investigation. Both USTs were found to be in poor condition with holes below the water line during excavation and removal. Soil samples collected from the site did not show elevated concentrations of petroleum constituents. However, groundwater samples collected from the tank excavation pit contained elevated levels of TPHd and TPHmo. Shasta County Environmental Health Division referred the case to the Central Valley Regional Water Quality Control Board (January 2022). The Regional Water Board requested a site investigation work plan (January 2022), which was submitted (April 2022). The site is a former autobody and paint shop.

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## **Acronyms / Abbreviations**

<b>bgs</b>	below ground surface
<b>BTEX</b>	Benzene, Toluene, Ethylbenzene, Xylene
<b>CAP</b>	Corrective Action Plan
<b>CSM</b>	Conceptual Site Model
<b>DRO</b>	Diesel Range Organics
<b>ESA</b>	Environmental Site Assessment
<b>ESLs</b>	Environmental Screening Levels
<b>GRO</b>	Gasoline Range Organics
<b>LTCP</b>	Low-Threat Closure Policy (i.e., California UST Low-Threat Case Closure Policy)
<b>LUST</b>	Leaking Underground Storage Tank
<b>MCL</b>	Maximum Contaminant Level
<b>MTBE</b>	Methyl tert-butyl ether
<b>NFA</b>	No Further Action
<b>ORO</b>	Oil Range Organics
<b>PAHs</b>	Polycyclic Aromatic Hydrocarbons
<b>PCE</b>	Tetrachloroethylene
<b>PFAS</b>	Per- and Polyfluorinated Substances
<b>RAP</b>	Remedial Action Plan
<b>RP</b>	Responsible Party
<b>TCE</b>	Trichloroethylene
<b>TPHd</b>	Total Petroleum Hydrocarbons (diesel)
<b>TPHg</b>	Total Petroleum Hydrocarbons (gasoline)
<b>TPHjf</b>	Total Petroleum Hydrocarbons (jet fuel)
<b>TPHmo</b>	Total Petroleum Hydrocarbons (motor oil)
<b>UST</b>	Underground Storage Tank
<b>VOCs</b>	Volatile Organic Compounds
<b>WQO</b>	Water Quality Objective

## Appendix B: List of Priority Violations

<b>CERS Violation Name</b>	<b>Violation Type Number</b>
Designated Operator - Inspection Records (USEPATCR 12)	2010004
Falsification	2010006
Release Detection Monitoring and Maintenance Records (USEPATCR 9d)	2030001
Leak Detection Equipment Maintenance (USEPATCR 9d)	2030002
Audible and Visual Alarm	2030003
Continuous In-Tank Leak Detection (CITLD) - Single-Walled Tank (USEPATCR 9d)	2030005
Automatic Tank Gauging - Single-Walled Tank (USEPATCR 9d)	2030006
Corrosion Protection - Impressed Current/Sacrificial Anode (USEPATCR 9c)	2030009
Designated Operator (DO) - Inspection (USEPATCR 12)	2030013
Leak Detection Performance Certification (USEPATCR 9d)	2030015
Double-Walled Tank Monitoring - After January 1, 1984 and Before July 1, 2004 (USEPATCR 9d)	2030016
Double-Walled Pressurized Pipe - Monitoring - In Lieu of 12 Month Line Integrity Test (USEPATCR 9d)	2030017
Double-Walled Pressurized Pipe -Interstitial Monitoring (USEPATCR 9d)	2030018
Groundwater and Vadose Zone Monitoring (USEPATCR 9d)	2030022
Line Leak Detector (LLD)-Double-Walled Pressurized Pipe (USEPATCR 9d)	2030025
Line Leak Detector (LLD) - Single-Walled Pressurized Pipe (USEPATCR 9d)	2030027
Lined Tank Requirements (USEPATCR 9c)	2030029
Unsafe UST Operation	2030035
Overfill Prevention (USEPATCR 9b)	2030036
Permanent Closure	2030038
Piping Obstruction (USEPATCR 9d)	2030040
Pressurized Double-Walled Pipe - Line Integrity Test (USEPATCR 9d)	2030042
Monitoring Equipment (USEPATCR 9d)	2030043

Appendix B: California UST Leak Prevention: January - June 2021 Semi-Annual Report

<b>CERS Violation Name</b>	<b>Violation Type Number</b>
Red Tag Deposit	2030044
Red Tag Tampering	2030045
Secondary Containment	2030047
Secondary Containment Testing (USEPATCR 9d)	2030048
Single-Walled Conventional Suction (USEPATCR 9d)	2030049
Single-Walled Conventional Suction Testing (USEPATCR 9d)	2030050
Single-Walled Gravity (USEPATCR 9d)	2030051
Single-Walled Pressurized Pipe Monitoring/Testing - (USEPATCR 9d)	2030052
Single-Walled Safe Suction	2030053
Statistical Inventory Reconciliation (SIR) Reporting	2030056
Statistical Inventory Reconciliation (SIR)	2030057
Statistical Inventory Reconciliation (SIR) (USEPATCR 9d)	2030058
Recording Unauthorized Releases	2030061
Tampering with Leak Detection Equipment (USEPATCR 9d)	2030062
Temporary Closure	2030063
Vapor, Pressure, Hydrostatic (VPH) Monitoring - On or After July 1, 2004 (RD)(USEPATCR 9d)	2030065
Well Proximity Enhanced Leak Detection (ELD) Testing	2030066
Emergency Generator Tank Systems Line Leak Detector (LLD) (USEPATCR 9d)	2030075
Reporting Unauthorized Releases (USEPATCR 9d)	2030077
Automatic Tank Gauge (ATG) / Statistical Inventory Reconciliation / Continuous In-Tank Leak Detection	2060002
Line Leak Detector (LLD) - Installed (USEPATCR 9d)	2060012
Improper Monitoring (USEPATCR 9d)	2060015
Spill Container (USEPATCR 9a)	2060020
UST Design/Construction - Compatibility	2060024
UST Primary Containment	2060027