Louisiana Department of Environmental Quality

Office of Environmental Assessment Underground Storage Tank Division

Overview of UST Remediation Process





UNDERGROUND STORAGE TANKS

What is an Underground Storage Tank?

An underground storage tank (UST) is a tank and connected underground piping having at least 10 percent of their combined volume underground.





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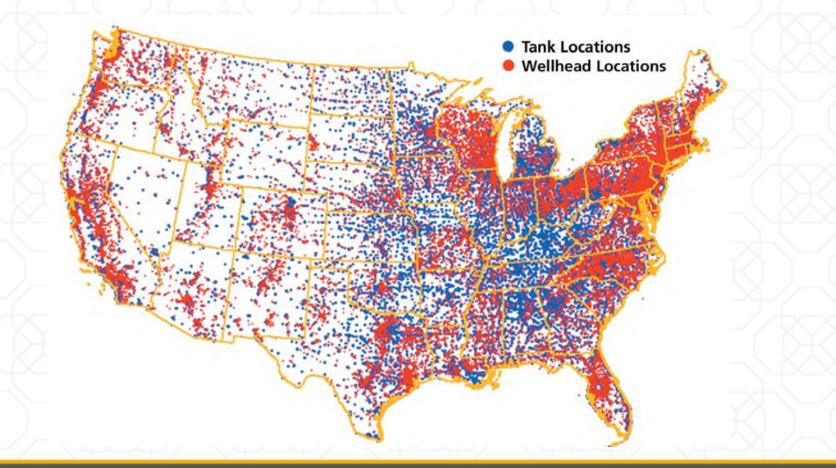
Why a UST Program?







Protect Groundwater

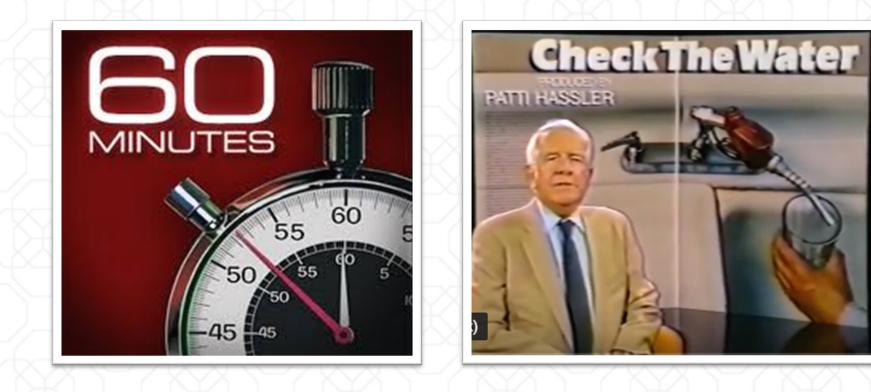




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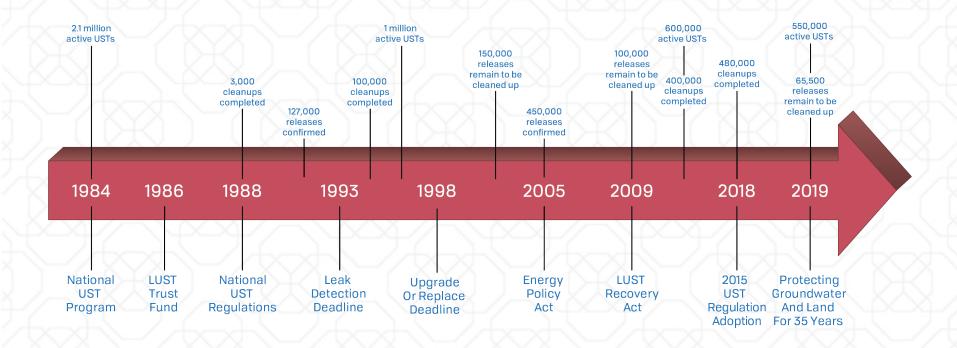
Check the Water







Regulatory Timeline

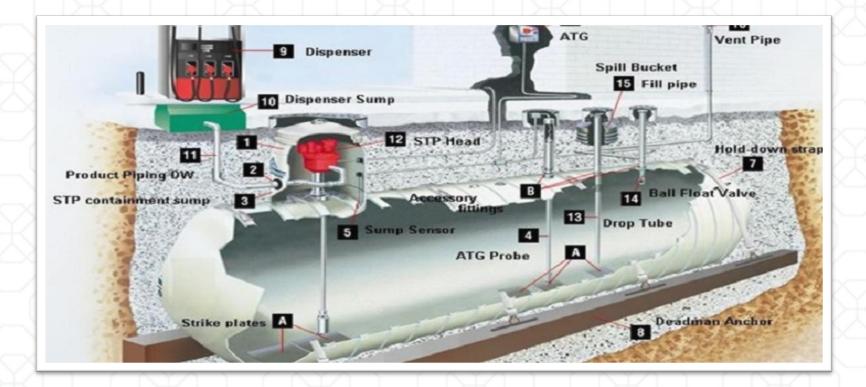




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Modern UST System





Louisiana UST Program

- Program Functions in three Offices
 - UST Division
 - Office of Environmental Assessment
 - UST Trust Fund
 - Office of Management and Finance
 - UST Enforcement
 - Office of Environmental Compliance

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UST Division

- Underground Storage Tank Division (USTD)
 - Administrative
 - UST Prevention
 - UST Corrective Action
- Locations
 - Headquarters
 - 6 Main Regional offices
 - New Orleans, Monroe, and Shreveport

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Lafayette, Lake Charles, Baton Rouge





UST Division

- Administrative
 - UST Reporting
 - UST Registration
 - UST CEI Processing
 - Energy Act of 2005 Compliance
 - UST Regulation Revisions
- Prevention
 - Compliance Evaluation Inspections (CEIs)
 - UST Certified Worker Program
 - Oversight and monitoring of UST installations, repairs, and testing of UST systems
 - Responding to UST-related incidents and complaints
 - Investigation, evaluation, and determination of causes of releases (confirmed release)
- Corrective Action
 - Corrective Action (Remediation) oversight
 - Review of work plans and reports for investigation, risk evaluation (RECAP), and corrective action

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- Direction and oversight of soil and groundwater assessment and remediation activities
- Determinations of No Further Action





UST Corrective Action "Remediation"





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Release Confirmation

- LDEQ SPOC Incident (Release) notification is received.
- LDEQ UST "Confirms Release"
- Incident is assigned a Team Leader to oversee Corrective Action.

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What is a Confirmed Release?

Any contamination from a UST system to the environment that is evidenced by **free phase product** and/or concentrations above any **RECAP screening option standard**

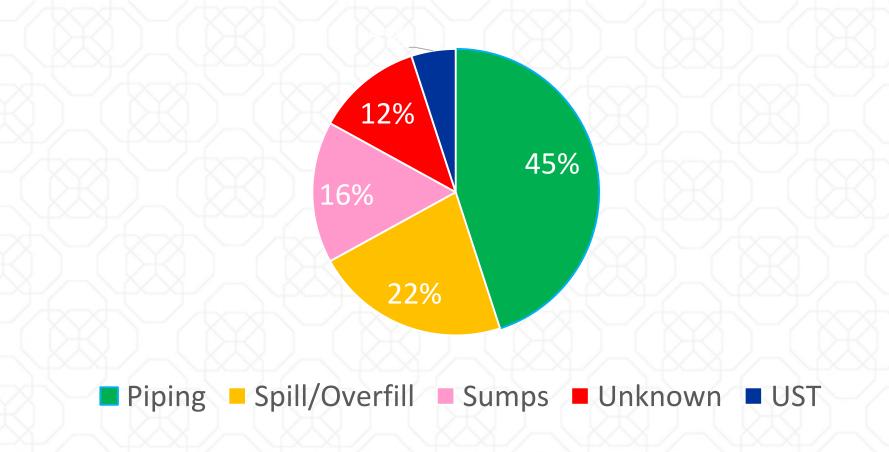






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Confirmed Releases Causes







UST Remediation Process

Site Investigation/RECAP Evaluation

- RECAP, Appendix B. Site Investigation Requirements
- RECAP General Data and Format Requirements
- Site Specific Standards

Corrective Action

- Presence of contamination at levels above the site-specific RECAP standards.
- viable and cost effective corrective action technologies are implemented to reduce concentration levels
- Remediation Oversight Group (ROG) approves most corrective action plans for sites that are eligible for the Motor Fuels Trust Fund.

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Release Closure

 Contamination does not exceed or is reduced to the extent necessary to achieve the site-specific standards.





Technologies Used

Investigation

- Direct push technology (DPT)
- Laser-Induced Fluorescence (LIF)
- Hollow stem augers well installation
- Peristaltic, bladder, and submersible pumps well purging and sampling
- Low-flow purging and sampling techniques

Corrective Action

- Dual phase vapor extraction (DPVE)
- Ozone sparging
- Insitu Chemical Oxidation
- Groundwater Pump and Treat
- Excavation





UST Universe

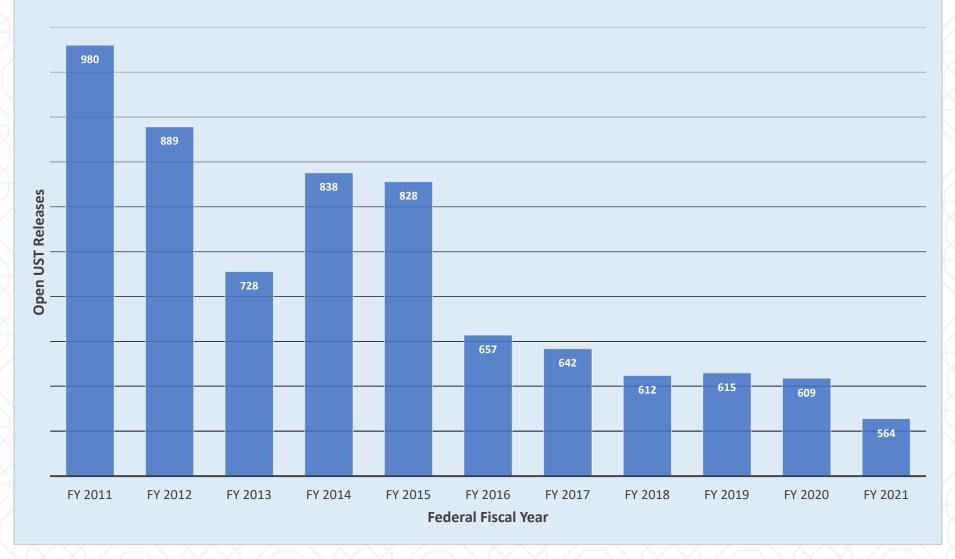
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- 10,117 Active USTs
- 37,261 Closed UST
- 3,824 Active Facilities
- 6,109 Confirmed releases
- 5,518 Cleanup completed
- 591 Active Confirmed releases
- 437 Facilities





No. of Open Confirmed Releases in last 10 Federal Fiscal Years







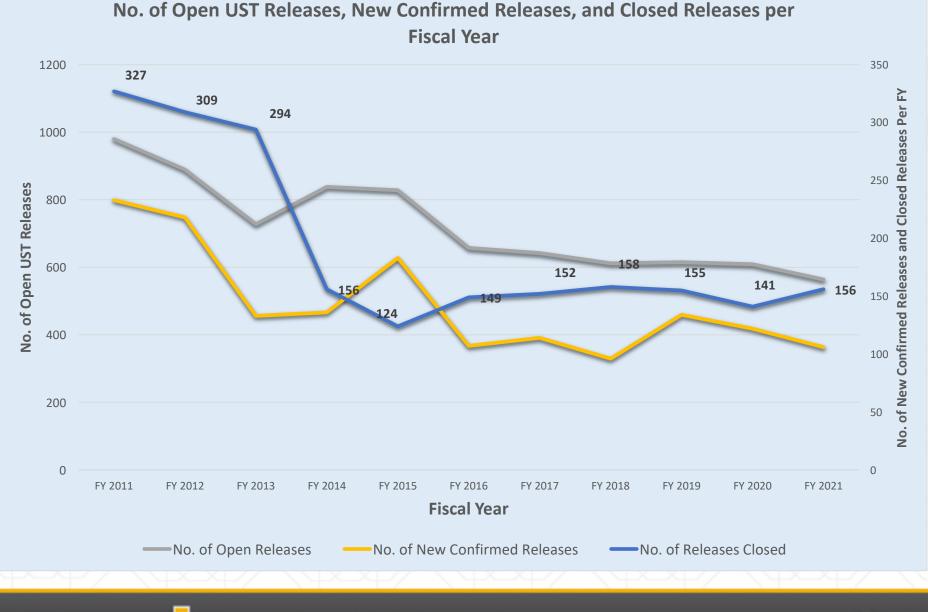
UNDERGROUND STORAGE TANKS



No. of Open Confirmed Releases in last 10 Federal Fiscal Years







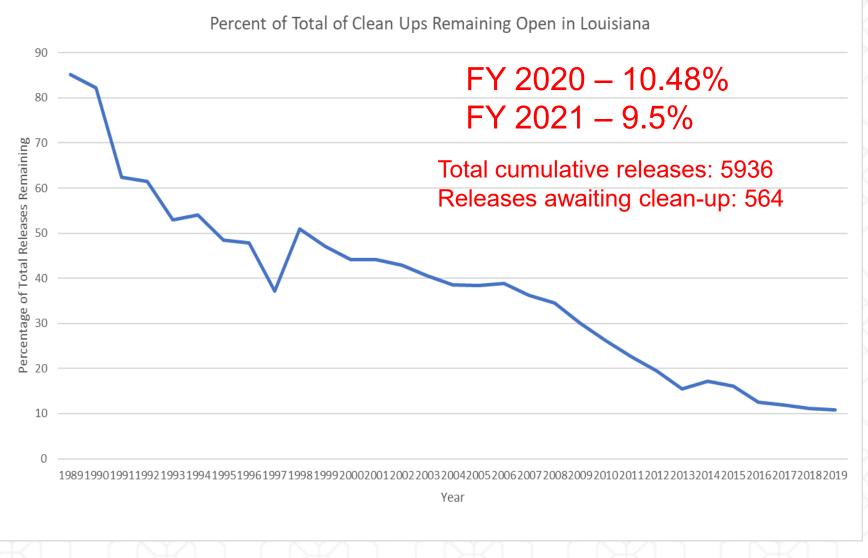
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Graph by Jessica Holland, LDEQ



What are the costs?

- Average costs for site investigations \$90,000
- Estimated costs for sites with investigation and corrective action - \$400,000 – \$900,000







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Who Pays?

- Financial Responsibilty (FR) Mechanisms:
 - Self-funded; Self-insured; Private Insurance
 - LA UST Motor Fuels Trust Fund (MFTF)
- EPA LUST Prevention Grant
- EPA LUST Corrective Action Grant
- Abandoned Tank Program (MFTF Ineligible)

 Interest monies from MFTF

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Louisiana Motor Fuels Trust Fund

- Established by RS 30:2195 (Act 767) on July 15, 1988.
- Reimburses appropriate costs incurred during Corrective Action.

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Trust Fund pays up to \$1,500,000 per confirmed release





Motor Fuels Trust Fund Funding Sources

New and Used Oil Storage tank fee

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- Approximately \$ 27,000.00 per year fee of \$275.00 per year per tank
- Fuel Distribution Fee
 - Fee of \$72.00 for each delivery of 9,000 gallons of fuel (8/10 of 1 cent per gal.)

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MFTF - Fee Collections



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Who is eligible for MFTF?

- "Eligible Participant" any owner/operator of an underground motor fuel storage tank who;
 - Has registered tanks prior to the date of a release,
 - Paid the annual tank registration fees,
 - Met the financial responsibility (deductible requirements).

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Eligibility Determination Process

- Were the tanks registered at the time of the release?
- Have all annual UST registration fees been paid?
- Did the owner select Trust Fund as their Financial Responsibility Funding Mechanism on the UST Registration Form?

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- Has DEQ confirmed that a release has occurred?
- Has DEQ requested Further Investigation for the release?





Compliant and Non-Compliant Financial Responsibility Deductible

- LDEQ Staff perform a compliance review
 - <u>Compliant</u> Site was 100% compliant
 - Compliant deductible- \$0 per release.
 - <u>Non-Compliant</u> Site was out of compliance (La. Revised Statute 30:2195.10.B)

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• Non-Compliant deductible- \$10,000 per release.





Limitations to Trust Fund Reimbursements:

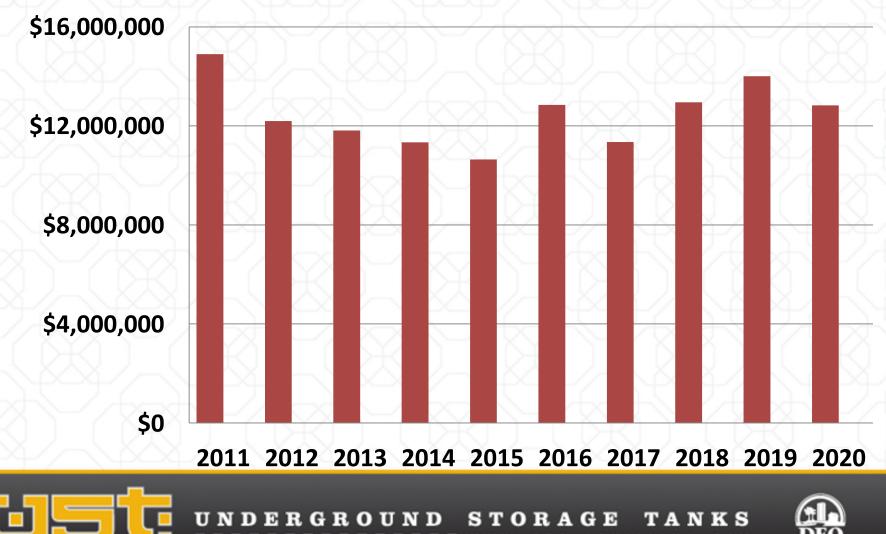
- Only reimburse to restore the site to the use and occupancy at the time of the release.
- Only reimburse Response Action Contractors (RACs).
- Cannot reimburse for activities older than two years.
- Only reimburse for USTs containing "Motor Fuels".

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Motor Fuels TF – Reimbursed Amounts





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Abandoned Tank Program (ATP)

- The purpose of the program is to provide financial assistance to;
 - Conduct tank closures
 - Complete site investigation
 - Complete corrective action activities.

Requires that the state shall have a lien against immovable property for the costs incurred for the completed activities. (La. R.S. 30:2195.F.2)

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ATP Eligibility

Under the provisions of La. R.S. 30:2195.F.3, a tank may be declared to be an abandoned UST by the secretary upon finding that <u>all of the following apply</u> to the site:

- Tank received motor fuels.
- Tank was not closed or the site was not assessed or remediated in accordance with regulatory requirements.
- Constitutes or may constitute a danger or potential danger to public health or the environment.
- No financially responsible owner who can be located or has failed or refused to undertake actions ordered by the secretary. (Unknown, Unwilling, or Unable owner)

• Release is not eligible for the Motor Fuels UST Trust Fund <u>OR</u> the secretary has determined that action by the department is the most timely and efficient way to address the conditions at the site.





Process for ATP

Inspections

- 1. CEIs conducted every 3 years.
- 2. Document noncompliance.
- 3. *Request further site investigation and/or corrective action.
- 4. Refer for further enforcement action.

Enforcement

- 1. Receives referral with documented violations.
- 2. Issues Compliance Order(s).
- 3. Requests financial information.
- 4. Determines financial status.

Eligibility

- 1. Demonstrates inability to pay.
- 2. Refuses to comply or unable to locate.
- 3. Site meets all criteria of R.S. 30:2195.F.3.
- 4. Committee approves site for inclusion.

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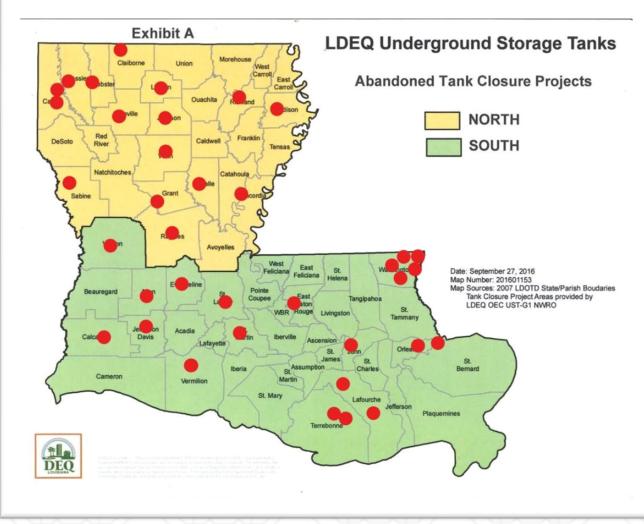
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Inclusion

- 1. Assign site to Team Leader.
- 2. Rank and prioritize site.
- 3. Issue Work Orders.
- 4. Complete closure or assessment.
- 5. File property lien.



Abandoned Tank Closure Projects







ATP Closures Summary Fiscal Years 2019-2021

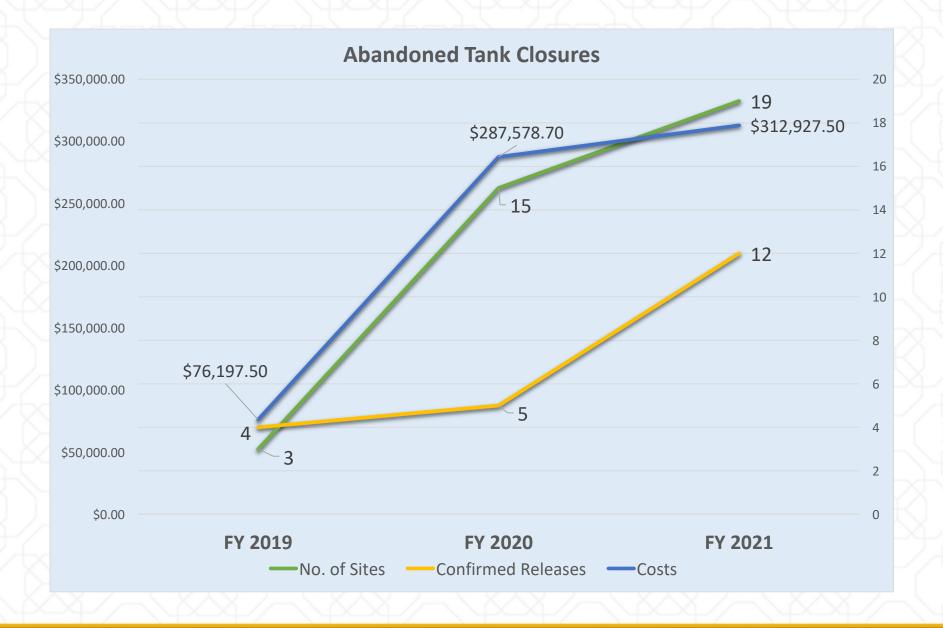
- No. of UST Sites Closed:
- No. of USTs Removed:
- Total Tank Capacity:
- Total Fluids Removed:
- Total Cost:
- Average Cost per Site:
- Confirmed Releases:
- Sites remaining on list:

37 105 363,600 gallons 127,079 gallons \$676,703.70 \$18,289.00 21 (4 require further investigation)



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ATP Remediation Projects

- 20 remediation sites on the current priority list.
- Active Work Orders for 8 priority remediation sites throughout the state.
 - Free phase present; Groundwater 1/2 Classifications
- Approved budgets of \$428,869.00.
- 2 sites are funded by a 2017 EPA Hurricane Relief Grant.
- All activities, investigation and corrective action, are in accordance with the UST Remediation Process and RECAP.

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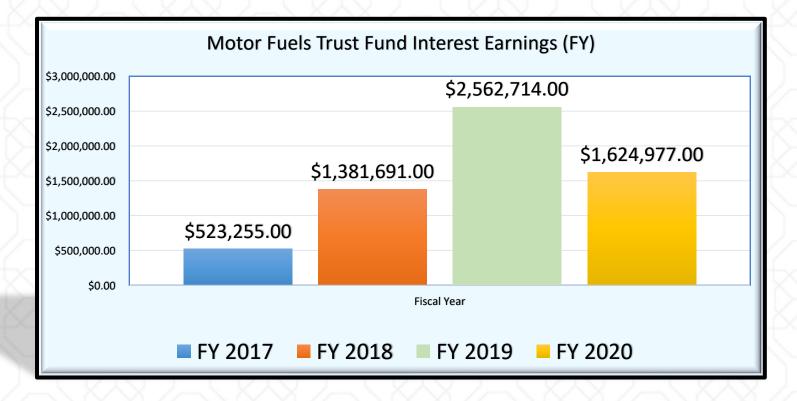




Financial Status of ATP Program

• FY 2020-2021 Budget:

\$1,200,000





Grading Performance

Legislative Reporting Indicators

- Number of sites evaluated and closed.
- Percentage of registered underground storage tank sites inspected.
- Percentage of soil and groundwater investigation work plans reviewed.
- Percentage of soil and groundwater corrective action work plans reviewed.

EPA Reporting Indicators

- LUST Prevention Grant
 - Establish target compliance rates for all UST Facilities meeting the Technical Compliance Rate in compliance TCR categories; Spill, Overfill, Corrosion Protection, and Release Detection.
- LUST Corrective Action Grant
 - Reduce the number of confirmed releases at UST facilities to five percent (5%) fewer than the prior year's target.
 - Number of confirmed releases awaiting cleanup at UST facilities.
 - Number of LUST Clean ups completed that meet risk-based standards for human exposure and groundwater migration.
 - Provide location information for cleanups completed during each semi-annual performance reporting period to meet the goals of the Environmental Justice 40 Initiative

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UST Division

Underground Storage Tank Division P.O. Box 4314 Baton Rouge, LA 70821-4314

https://www.deq.louisiana.gov/page/underground-storage-tank

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225-219-LDEQ (5337) or Toll Free 1-866-896-LDEQ (5337)





Questions?





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