

# Missouri Environmental Remediation Program

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September 30, 2019

# Top 5

- Reorganization
- HW Fees
- Tanks
- Superfund TCE / Lead
- Brownfields Voluntary Cleanup Program - MRBCA

# Reorganization

RCRA C and RCRA D Permitting and Enforcement Sections were consolidated into the Waste Management Program

Tanks Enforcement Unit merged into the Tanks Section

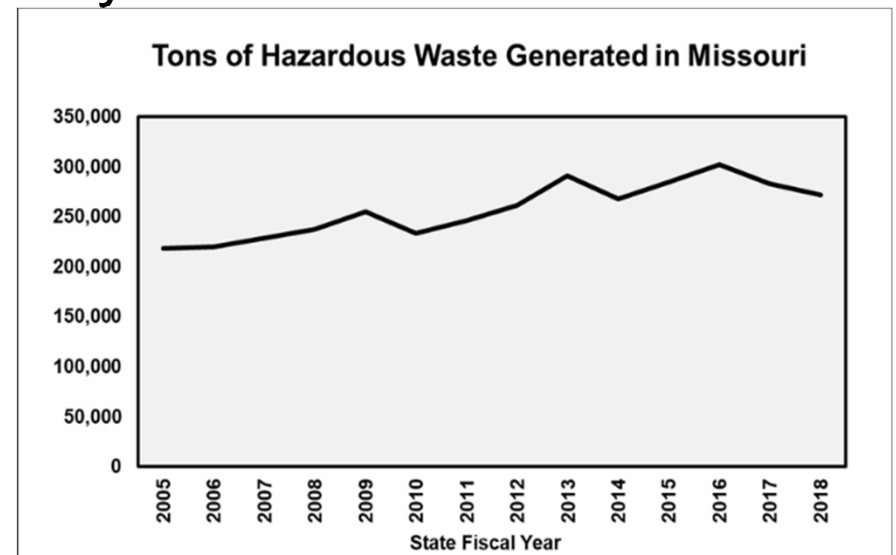
Hazardous Waste Program is now the Environmental Remediation Program

The Hazardous Waste Management Commission and rules remain

# Generator Fee Proposed Increase

## Why

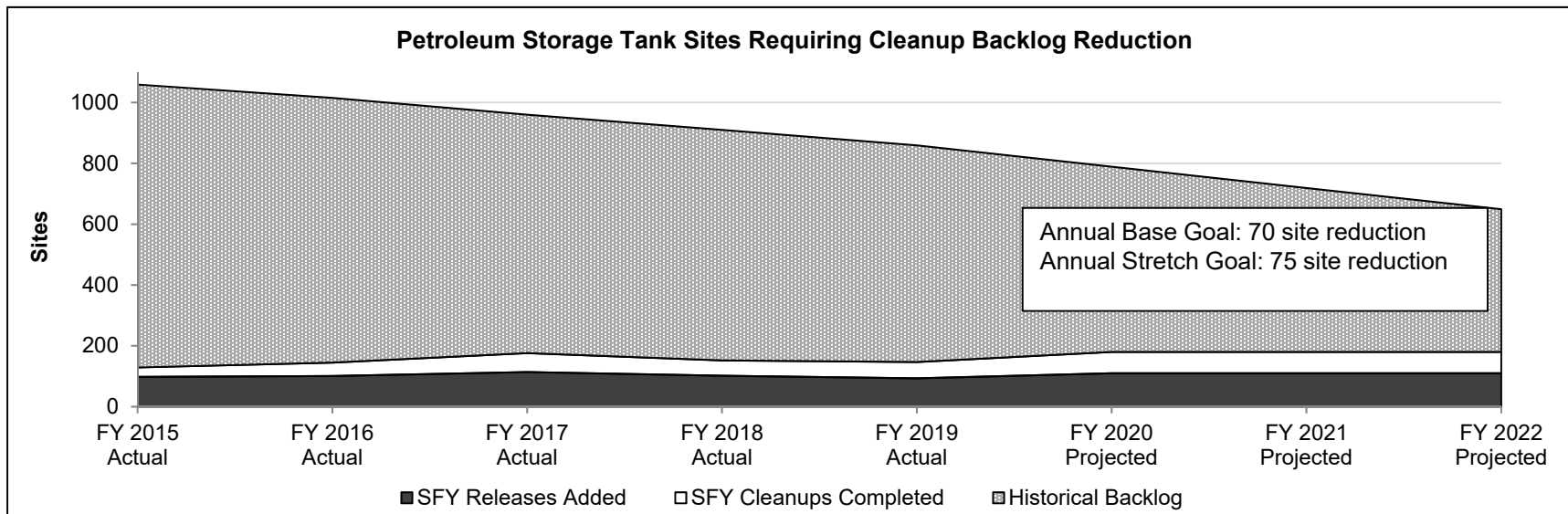
- RCRA federal grant funding cuts (\$1,000,000)
- Increased fixed costs (\$958,000)
- Red Tape Reduction Initiative (\$300,000)
- Work not decreasing proportionately to our revenues



# FY19 Tanks Numbers

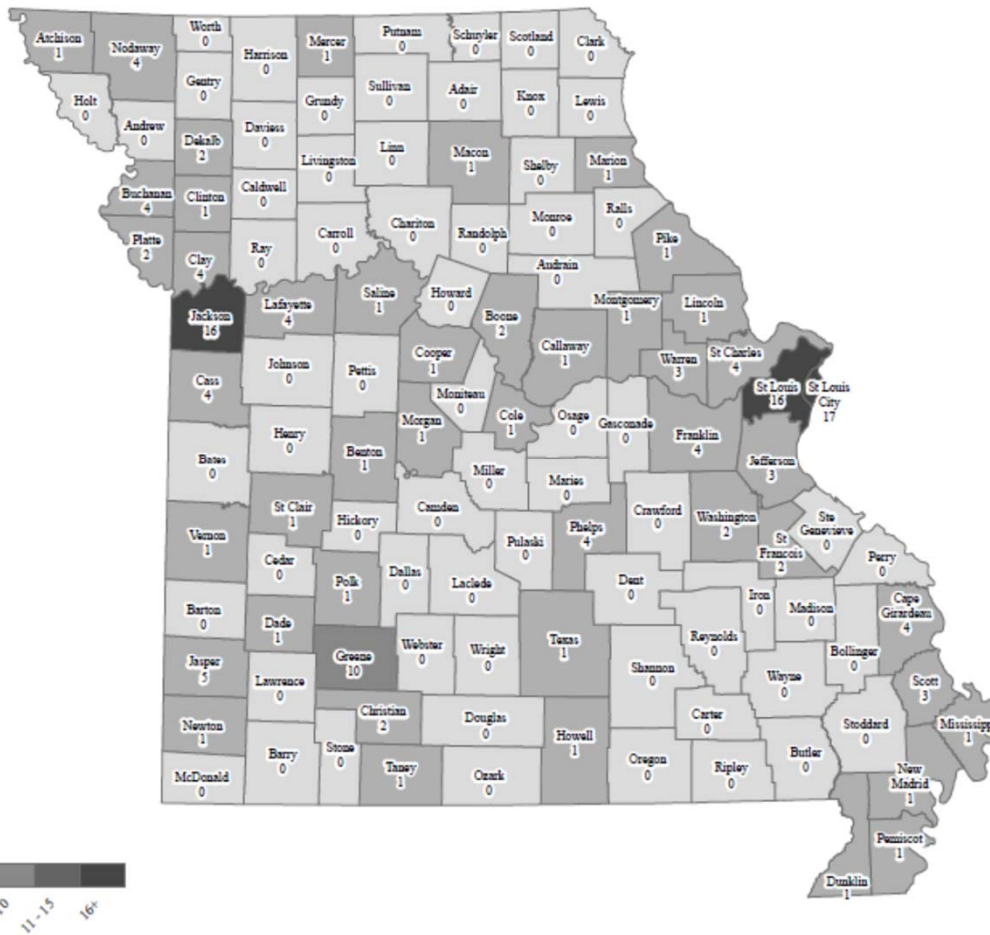
- 3,318 regulated facilities with 8,565 active USTs
- 1,078 facility inspections (823 Rounds & Associates)
- 93 new releases reported
- 147 cleanups completed
- 358 tanks properly closed
- 113 closure reports reviewed
- 116 closure notices approved
- 23 petroleum release response actions
- 1,001 certificates of registration issued
- 53 new installations overseen
- 97.7% compliance with financial responsibility (48 sites exempt)
- Backlog is 859

# Accomplishments

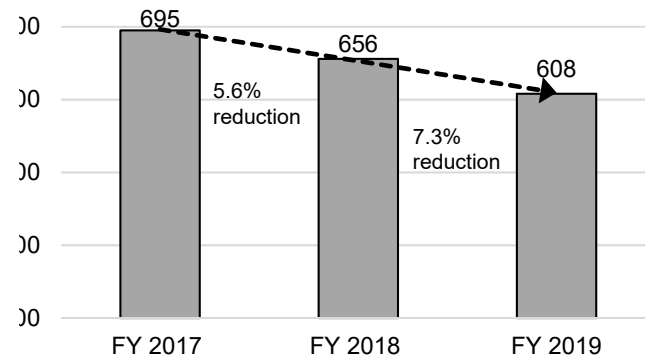


	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual	FY 2020 Projected	FY 2021 Projected	FY 2022 Projected
Active Cleanups	960	910	859	789	719	649
SFY Cleanups complete	176	152	147	180	180	180
SFY Releases Added	114	102	93	110	110	110
SFY Reduction of Sites	55	50	51	70	70	70

# FY19 UST Cleanups



Ongoing Petroleum Storage Tank Cleanups Lasting 5 or More Years

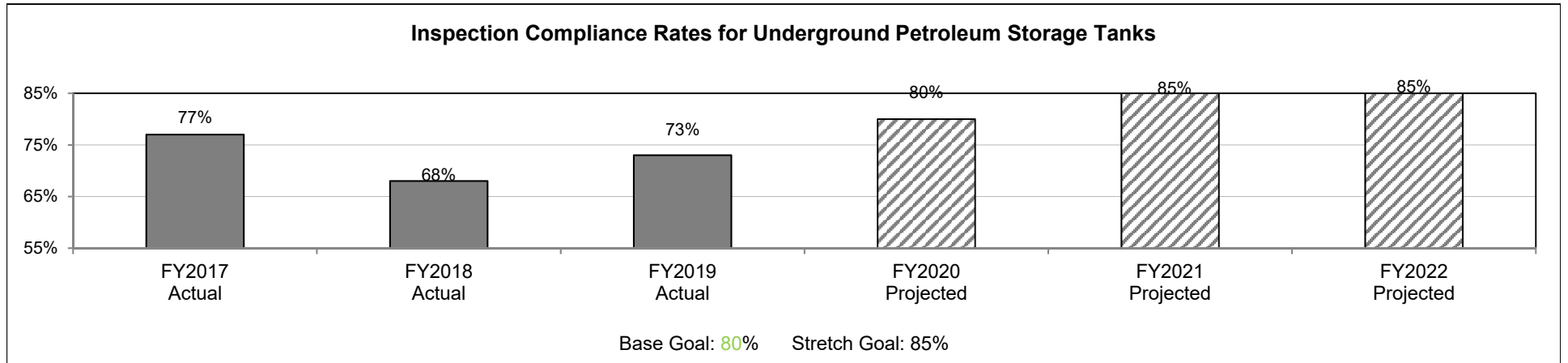


The Department's goal is to reduce the time needed to cleanup a site so that more sites are completed in 5 years or less.

Base Goal = 8% annually

Stretch Goal = 10% annually

# Accomplishments



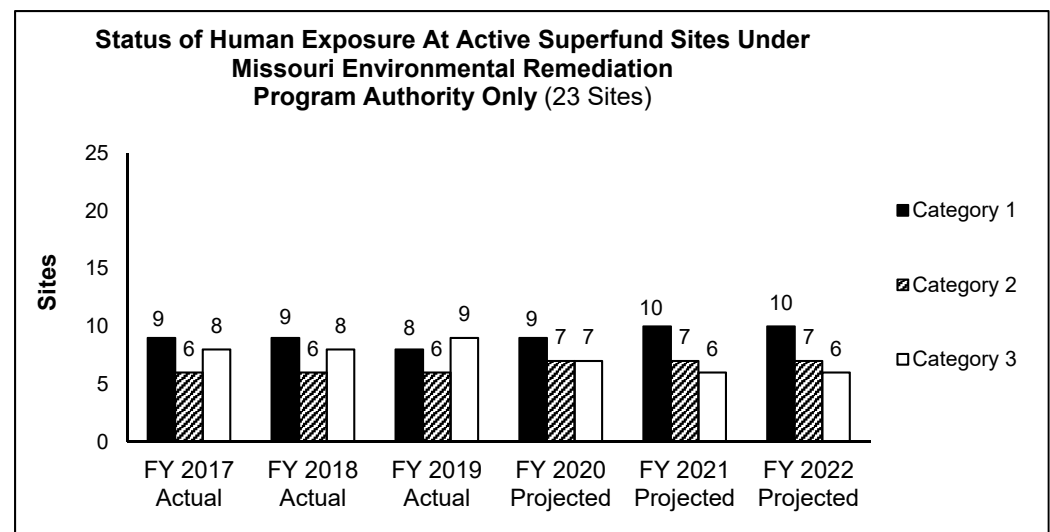
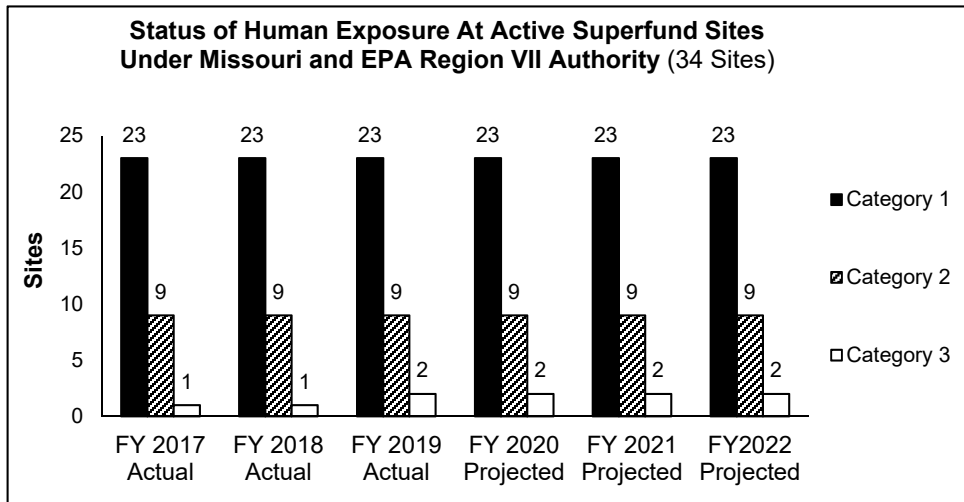
Compliance assistance efforts have a direct impact on compliance rates.



# Superfund

- 34 NPL Sites Under EPA Authority
  - 13 VOC
  - 10 Lead Mining Sites
    - Thousands of Acres
    - Residential Yards
- 23 Sites Under Missouri Authority
- 26 TCE Sites

# Status of Human Exposure



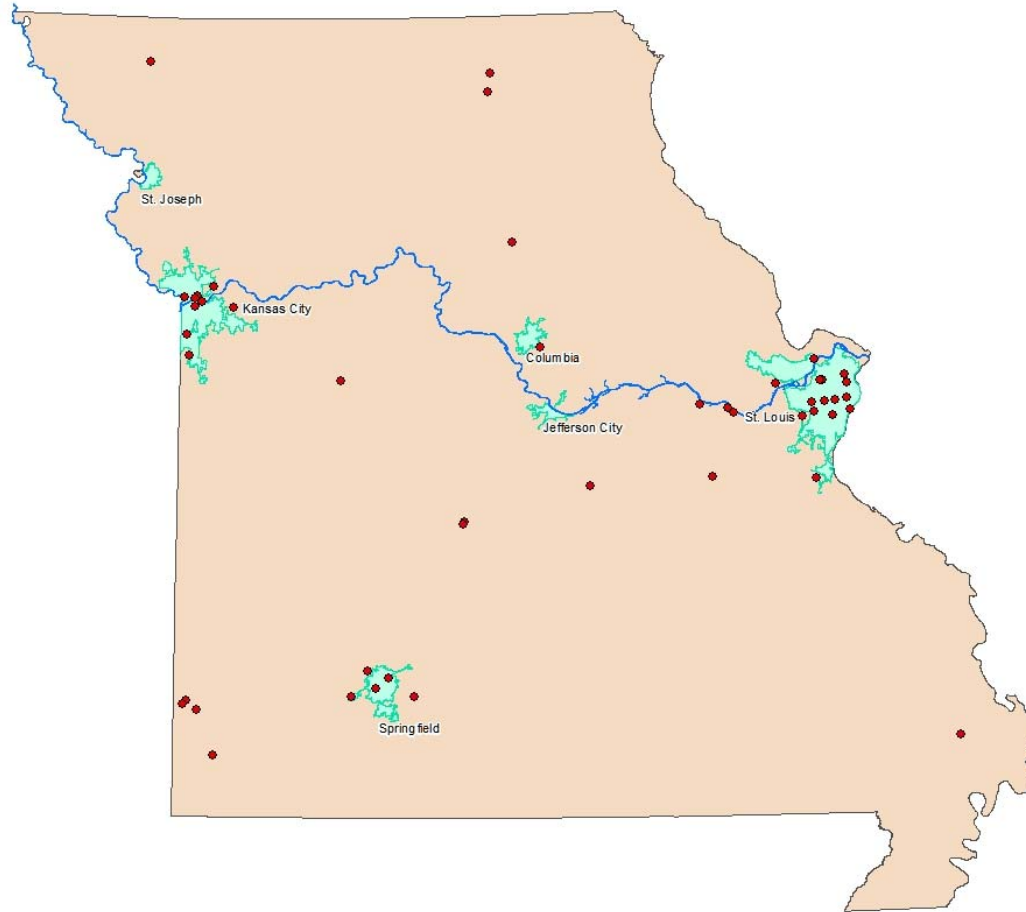
# ERP TCE Sites

- The ERP has identified 47 sites where TCE is/was a major contaminant.
  - 26 Superfund Sites
  - 10 Federal Facilities Sites
  - 11 VCP sites



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# TCE Impacts

- Contaminated Soil
  - Usually limited to the source area.
- Vapor Intrusion
  - Usually limited to areas near the source area.
- Groundwater
  - May travel significant distances affecting offsite properties.
  - May impact drinking water.

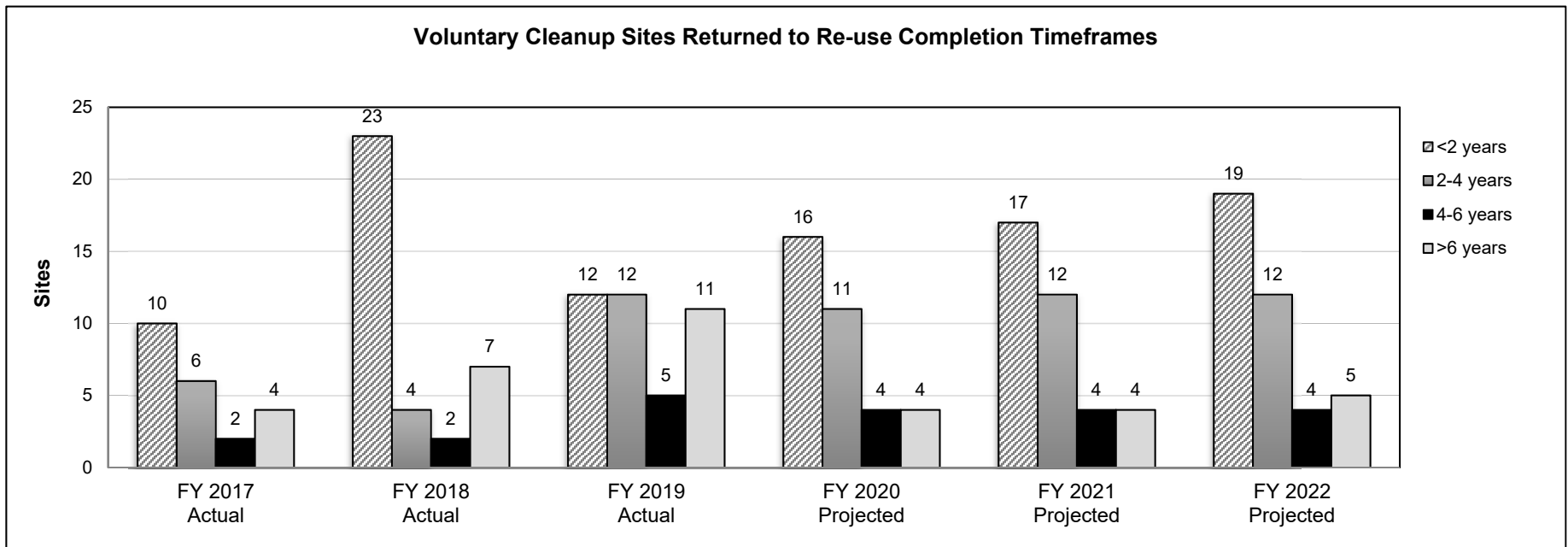
# Soil Treatment Technologies

- Excavation
- In-situ Thermal Treatment (heating)
- Vapor Extraction
- Chemical Oxidation
- Active Bioremediation
- Natural Attenuation

# Brownfields Voluntary Cleanup Program

- Achieved 40 cleanups this year
- MRBCA
  - Adjusting document based on stakeholder input
  - Next step is 60 day public comment ~ October

# Accomplishments



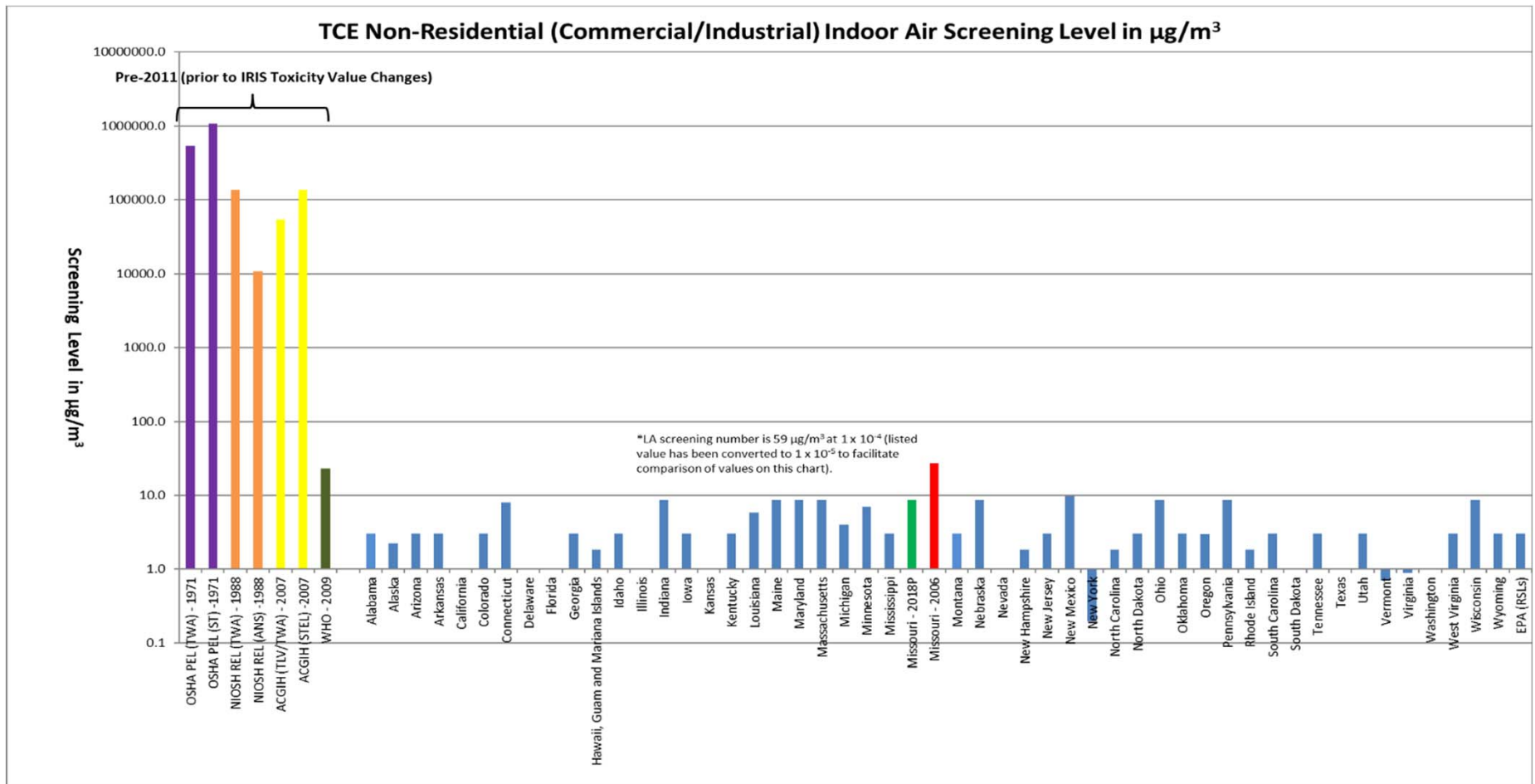
40 BVCP sites cleaned up in FY19





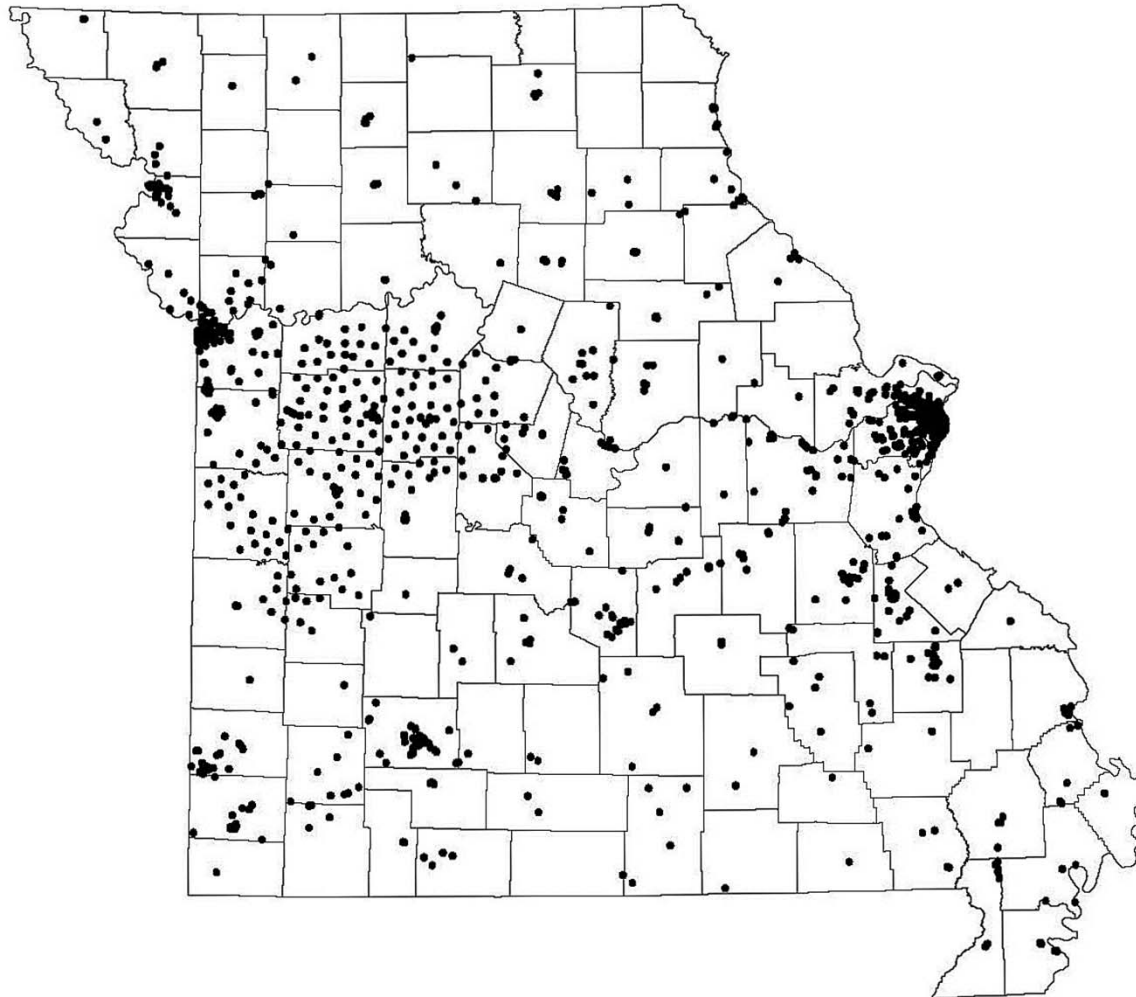
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# Indoor Air Screening Levels by State





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### Ongoing Cleanup Sites as of June 2019

Each dot represents one Superfund, BVCP, or Federal Facilities cleanup site.

**BVCP** - The Brownfields Site-Specific Assessment program provides funding and technical assistance to help assess the environmental condition of properties.

**Superfund** - Works with sites where EPA is the lead agency. The state pays for 10% of the total EPA cleanup costs and 100% of ongoing operation and maintenance at these sites. Currently the state is funding 10% of the cleanup cost on 14 EPA led sites.

**Federal Facilities** - Federal agencies provide funding to oversee cleanup at U.S. Department of Defense and Department of Energy sites.