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

Petroleum Storage Tank Sites Requiring Cleanup Backlog Reduction

Annual Base Goal: 70 site reduction
Annual Stretch Goal: 75 site reduction

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

FY19 UST Cleanups
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

Status of Human Exposure At Active Superfund Sites Under Missouri and EPA Region VII Authority (34 Sites)

<table>
<thead>
<tr>
<th>FY</th>
<th>Category 1</th>
<th>Category 2</th>
<th>Category 3</th>
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<td>FY 2018 Actual</td>
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<td>FY 2019 Actual</td>
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<tr>
<td>FY 2020 Projected</td>
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<tr>
<td>FY 2022 Projected</td>
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</table>

Status of Human Exposure At Active Superfund Sites Under Missouri Environmental Remediation Program Authority Only (23 Sites)

<table>
<thead>
<tr>
<th>FY</th>
<th>Category 1</th>
<th>Category 2</th>
<th>Category 3</th>
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<tr>
<td>FY 2022 Projected</td>
<td>10</td>
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</table>
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
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

Voluntary Cleanup Sites Returned to Re-use Completion Timeframes

40 BVCP sites cleaned up in FY19
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.