

PROGRAM DESCRIPTION

Department of Natural Resources

HB Section(s): 6.225, 6.265

DEQ - Environmental Remediation Program

Program is found in the following core budget(s): Environmental Remediation Program

1a. What strategic priority does this program address?

The Environmental Remediation Program helps Missouri citizens by managing natural resources to promote a healthy environment and economy by:

- Promoting environmental responsibility and resource stewardship.
- Enhancing services, information, and communication to improve customer experience.
- Modernizing infrastructure, strengthening workforce, and supporting economic development.
- Improving internal processes to better serve our customers.

1b. What does this program do?

The major functions of the Environmental Remediation Program are:

Pollution Prevention

- Prevents environmental damages and impacts to public health
- Promotes safe operation of approximately 3,291 underground storage tank sites by registering tanks, maintaining data, providing compliance assistance, conducting inspections, and taking appropriate enforcement actions
- Provides training and equipment to first responders along radioactive materials transportation routes

Remediation

- Addresses environmental contamination through investigation, remediation of contaminated sites, and restoration of land to productive use
- Implements laws that require responsible parties to be accountable for contamination
- Facilitates environmental remediation when parties seek to voluntarily clean up contaminated sites
- Provides oversight of parties conducting remediation

Long-Term Stewardship

- Implements long-term stewardship measures
- Performs operation and maintenance activities
- Conducts inspections
- Maintains a registry and on-line mapper, providing information to the public on appropriate and productive reuse of properties

(continued on following page)

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1b. What does this program do (continued)?

Environmental Restoration
 Assesses, restores, or rehabilitates damage to natural resources

The Environmental Remediation Program utilizes program-specific distribution appropriations in conjunction with operating appropriations to:

- Contract cleanup, monitoring, assessment work, manage data, perform relevant environmental studies, or related activities
- Meet state obligations at Superfund sites
- Investigate radiological contaminated sites

The following table shows financial data for the budget units included in this form.*

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
	Actual	Actual	Actual	Current	Gov Rec
Environmental Remediation Operations (78870C)	5,540,311	5,443,671	5,043,775	4,969,311	4,779,971
Hazardous Sites PSD (79445C)	1,796,326	2,879,613	1,750,440	3,978,944	3,903,944
Total	7,336,637	8,323,284	6,794,215	8,948,255	8,683,915

* The FY 2021 Budget included core reallocations to the Waste Management Program. This reallocation was due to reorganization between the Environmental Remediation and Waste Management Programs (formerly known as the Hazardous Waste and Solid Waste Management programs).

2a. Provide an activity measure(s) for the program.

Clients served represents a known universe of persons and facilities regulated through licenses, registrations, and certifications plus sites either being assessed for contamination or sites in cleanup oversight.

Clients Served	FY 2018	FY 2019	FY 2020
Underground Storage Tanks (UST)/Leaking UST sites	3,366	3,318	3,291
Federal Facility sites	245	247	247
Brownfields/Voluntary Cleanup Program (BVCP) sites	530	657	677
Superfund Sites Evaluated Under CERCLA	326	255	255
Totals	4,467	4,477	4,470

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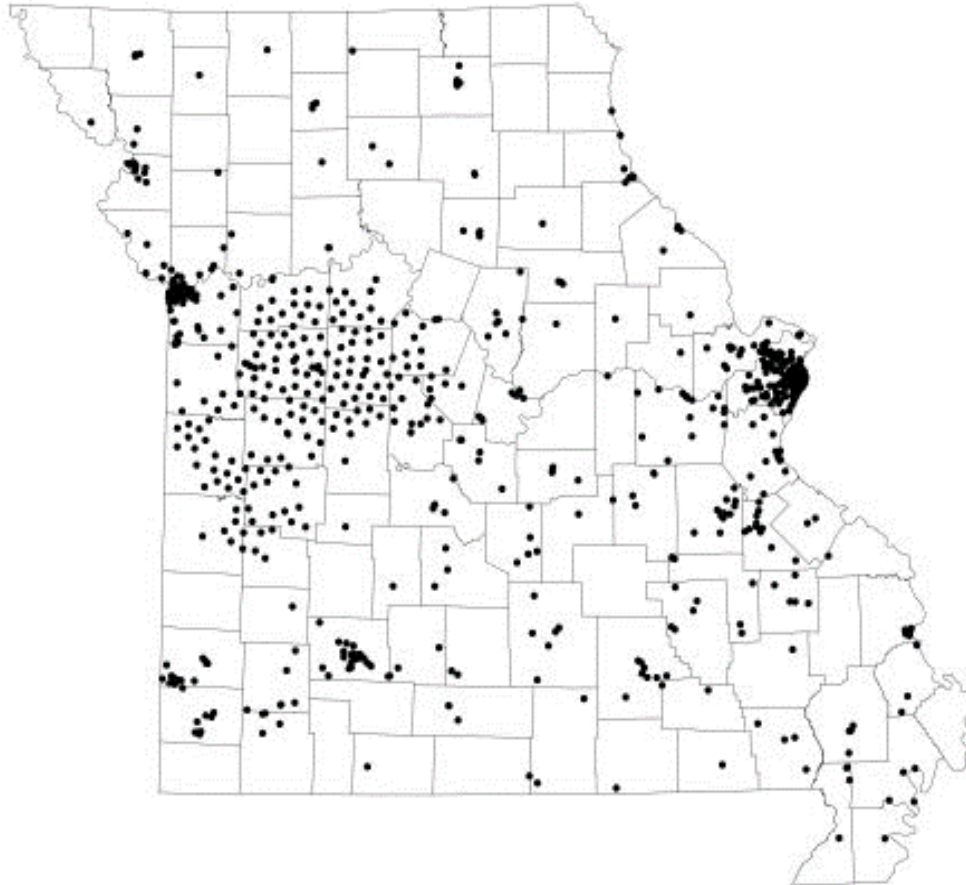
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2a. Provide an activity measure(s) for the program (continued).



Ongoing Active Cleanup and Long-term Stewardship Sites as of June 2020

Each dot represents one Superfund, BVCP, or Federal Facilities site where the Department provides cleanup oversight or long-term stewardship monitoring.

Brownfields/Voluntary Cleanup Program (BVCP) - The program provides funding and technical assistance to help assess the environmental condition of properties; addresses and oversees brownfield cleanups; and provides long-term stewardship of completed sites.

Superfund - EPA, the State, and responsible parties provide funding for assessment activities, oversight, and cleanup at Superfund sites. The state pays 10% of the total EPA cleanup costs and 100% of ongoing operation and maintenance at sites without responsible parties.

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

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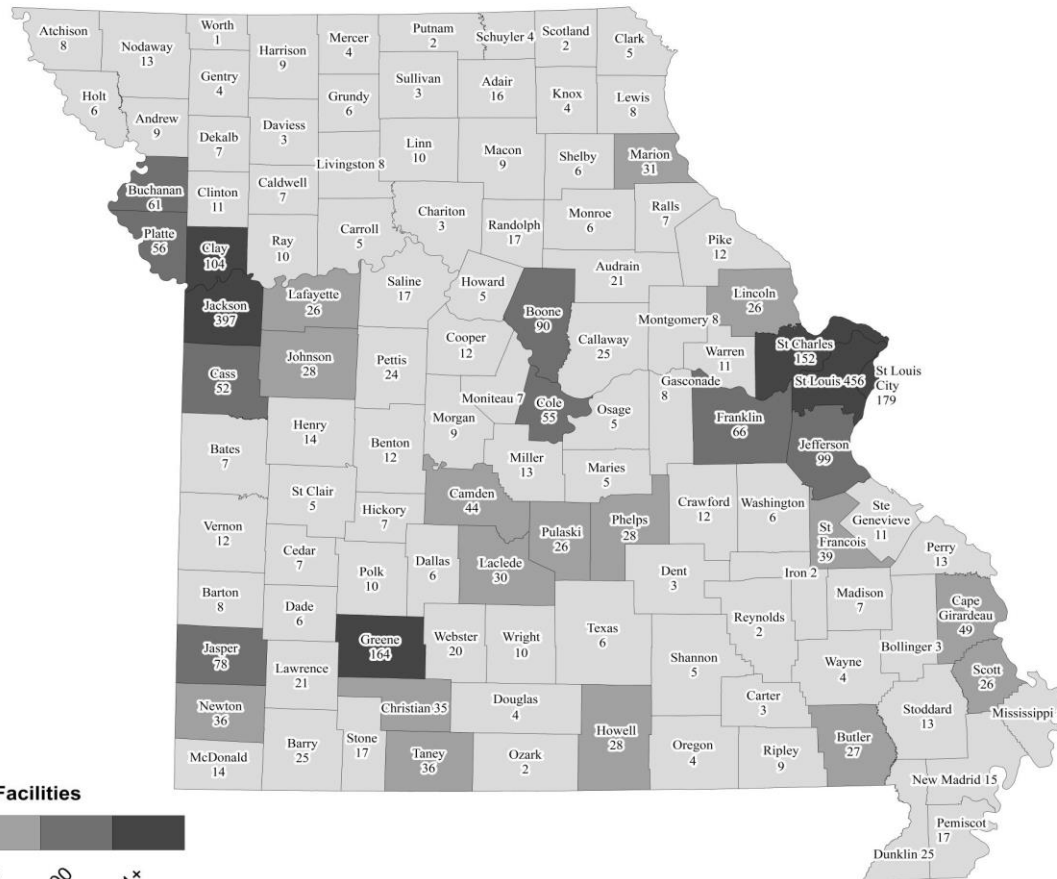
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2a. Provide an activity measure(s) for the program (continued).



Active Underground Storage Tank Facilities

This map represents, by county, the number of active facilities with underground petroleum storage tanks as of June 2020.

Total active facilities = 3,291

Active facilities are sites that have either currently-in-use, or out-of-use tanks, or a combination of both.

Legend

Active UST Facilities



1 - 25
26 - 50
51 - 100
101+

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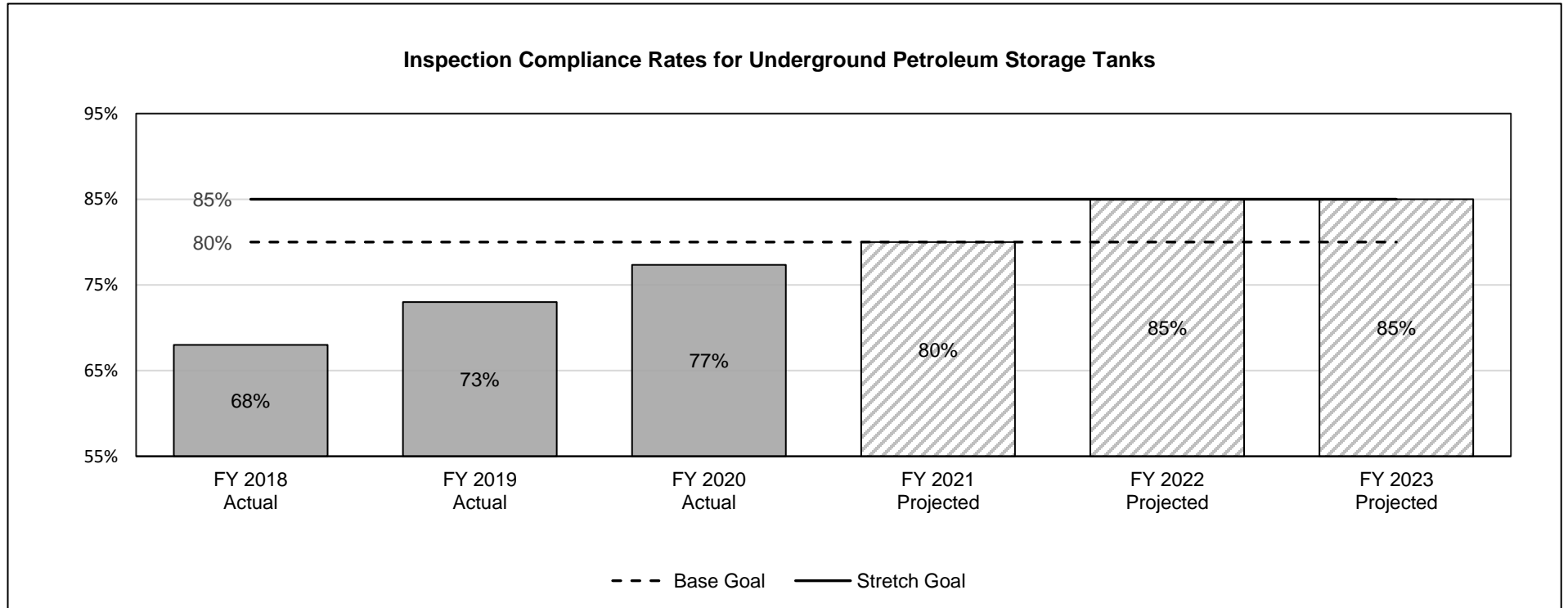
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2b. Provide a measure(s) of the program's quality.



Compliant facilities have achieved operating compliance with spill, overfill, corrosion protection, and leak detection. The FY 2018 rate was lower than historical numbers because of new operating regulations. Compliance has since increased in FY 2019 and FY 2020. The Environmental Protection Agency has set the current national significant operational compliance rate goal at 71.6% or higher. Missouri's compliance rate is expected to continue to surpass the national goal in future fiscal years.

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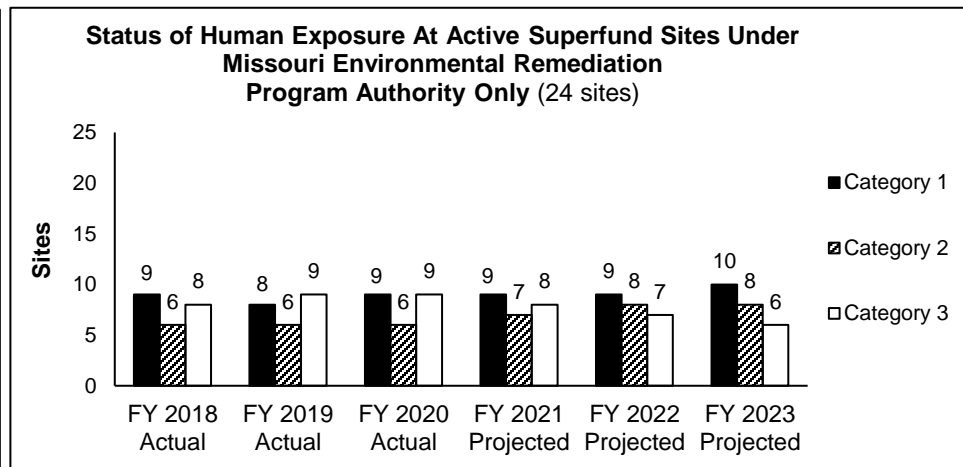
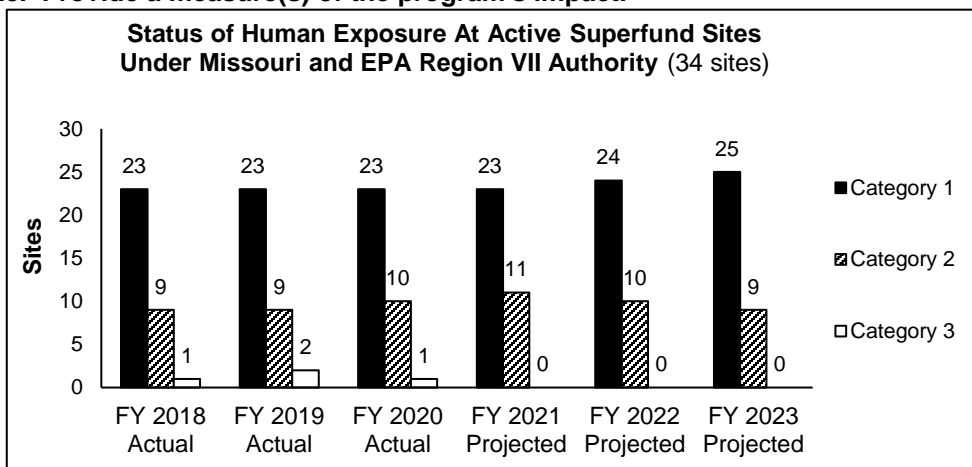
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2c. Provide a measure(s) of the program's impact.



Category 1 - Sites where people are not exposed to unacceptable levels of contaminants.

Category 2 - Sites where people could be exposed to unacceptable levels of contaminants, but work is in progress to eliminate unacceptable exposure.

Category 3 - Sites where there is uncertainty regarding human exposure; additional data collection and evaluation is needed.

Base Goal = 1 site moving from a Category 3 to a Category 2

Stretch Goal = 1 site moving from Category 3 to a Category 1

Cleaning up Superfund sites is a complex, multi-phase process that can take decades. The amount of time it takes to clean up a site depends upon the type, volume, extent, and location of contamination, risk to human health and the environment, and the cleanup technology used.

The 34 sites under both EPA and Missouri authority are National Priority Listed (NPL) sites. These sites are among the Nation's highest priority for cleanup of hazardous substances. The primary concern at thirteen NPL sites is volatile organic compound (VOC) groundwater contamination, which is typically treated by removing the source contamination then pumping groundwater to the surface and using technology to remove pollutants. An additional ten sites are from former lead mining activities, encompassing thousands of acres across whole counties that have contaminated soil, groundwater, and surface water with thousands of residential yards requiring cleanup.

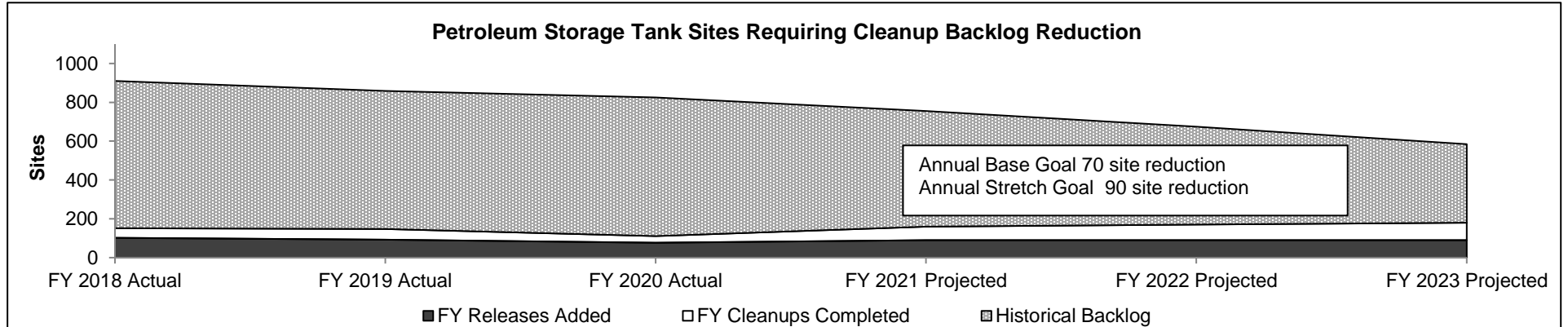
Sporlan Valve site under Missouri and EPA Region VII Authority added in FY 2019.

Dawson Metal Products Camdenton Facility #2 site under Missouri Authority added in FY 2020.

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2d. Provide a measure(s) of the program's efficiency.



	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Projected	FY 2022 Projected	FY 2023 Projected
Active Cleanups	910	859	825	755	675	585
FY Cleanups Completed	152	147	111	160	170	180
FY Releases Added	102	93	77	90	90	90
FY Reduction of Sites	50	54	34	70	80	90

At full appropriation, 15.5 project managers work on 825 tank remediation projects, approximately 53 sites per project manager. The Program projects cleanup of 160-180 sites annually over the next 3 years. Over the past three years, the Program has received an average of 90 new cleanup sites each year. The backlog of sites is projected to be reduced annually by 70-90. FY 2020 cleanups were lower due to the impact of the COVID-19 pandemic on contractor activities and property transfers. The pandemic also impacted the Department's replacement of several senior project manager positions. As new staff gain experience and as the economy rebounds, cleanup numbers should increase.

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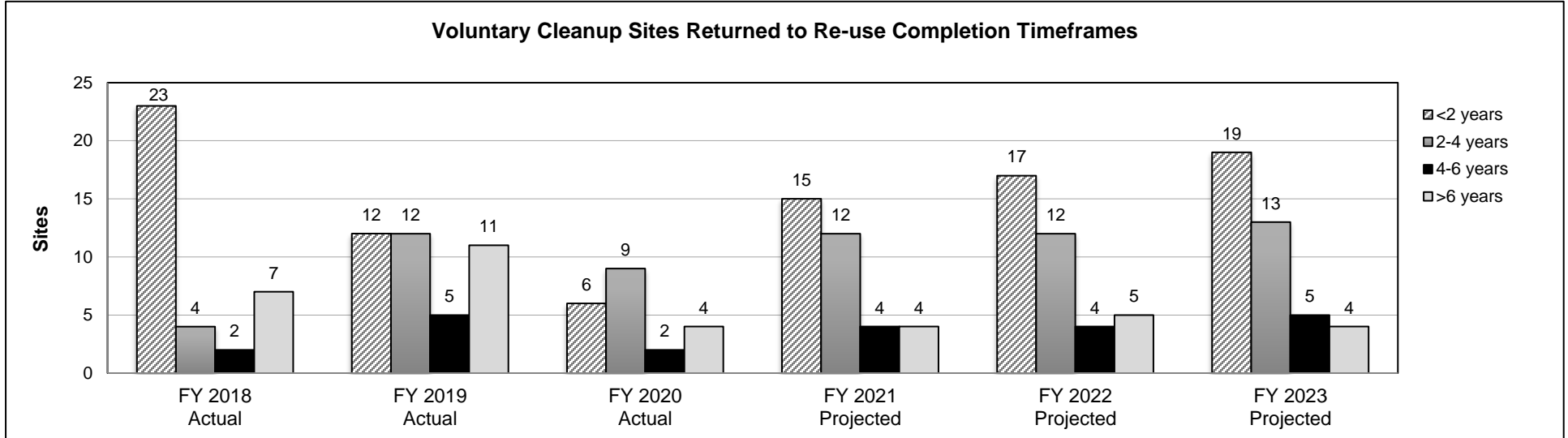
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2d. Provide a measure(s) of the program's efficiency (continued).



Properties in the Voluntary Cleanup Program range from residential to small businesses to multi-acre heavy industrial manufacturing facilities, with cleanups ranging from lead-based paint to extensive soil, groundwater, and indoor air contamination.

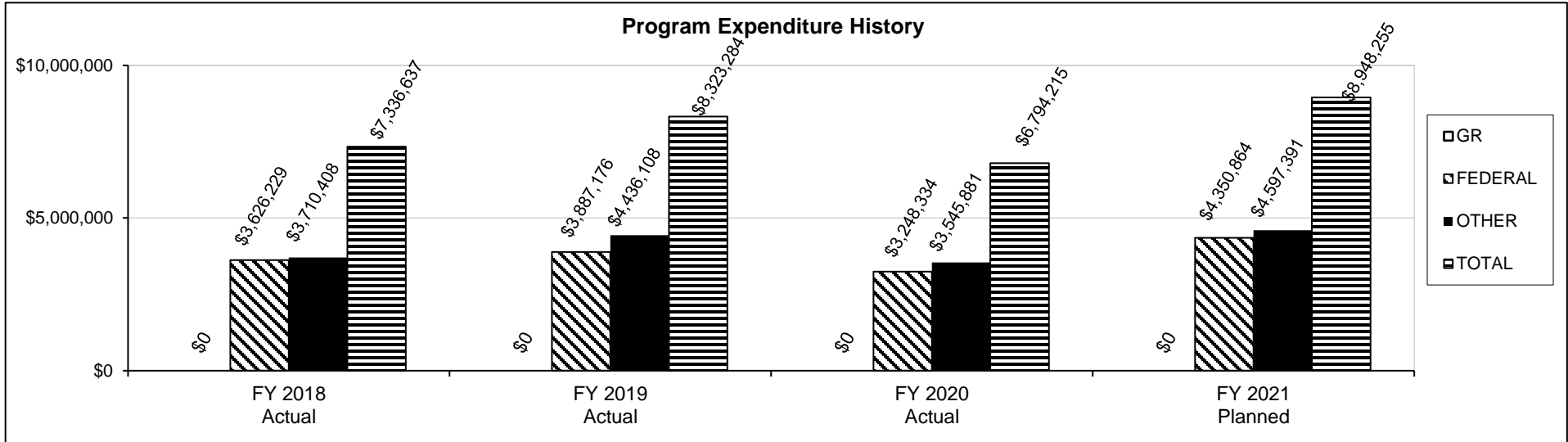
Since the beginning of the Voluntary Cleanup Program, approximately 45% of the properties complete the process within 2 years. The time to completion for a given site depends on the nature and extent of contamination and the effort with which the voluntary participant wishes to pursue site cleanup. Since inception of the program in 1995, 946 sites have been cleaned up. FY 2020 totals were lower due to a number of factors, including participant financial issues, legal issues with adjacent landowners, complex sites requiring more time to cleanup, and participant delays in completing environmental covenant processes. In some cases, the COVID-19 pandemic has slowed or stopped progress.

Goal: Complete 30-40 sites annually

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3. Provide actual expenditures for the prior three fiscal years and planned expenditures for the current fiscal year. (Note: Amounts do not include fringe benefit costs.)



This budget does not contain General Revenue.

Financial data includes operating and pass-through appropriations. Beginning in FY 2013, core pass-through appropriations were set at a level to encumber and pay our commitments, which often span multiple fiscal years. FY 2021 Planned is shown at full appropriation.

4. What are the sources of the "Other" funds?

Natural Resources Protection Fund - Damages Subaccounts (0555); Solid Waste Management Fund (0570); Underground Storage Tank Regulation Program Fund (0586); Environmental Radiation Monitoring Fund (0656); Hazardous Waste Fund (0676)

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5. What is the authorization for this program, i.e., federal or state statute, etc.? (Include the federal program number, if applicable.)	
<u>Pollution Prevention</u>	
Resource Conservation and Recovery Act of 1976 (RCRA), as amended	
Solid Waste Disposal Act of 1976	
Energy Policy Act of 2005	
RSMo 319.100 through 319.139	Petroleum Storage Tanks
Title 42, USC part 9607(f)	Comprehensive Environmental Response, Compensation, and Liability Act of 1980, Oil Pollution Act of 1990
RSMo Chapters 640 and 644	Missouri Clean Water Law
RSMo Chapter 640	Missouri Safe Drinking Water Law
RSMo 643.010 through 643.192	Air Pollution Control
RSMo 260.200 through 260.255	Solid Waste Management
<u>Remediation, Restoration, and Long-Term Stewardship</u>	
Title 42, USC part 9607(f)	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
Superfund Amendments and Reauthorization Act of 1986	
Atomic Energy Act of 1954, as amended, Section 21	
Energy Reorganization Act of 1974	
Department of Energy Organization Act of 1977, as amended	
Energy Policy Act of 1992, Title X and XI	
Small Business Liability Relief and Brownfields Revitalization Act 2002	
RSMo 260.435 through 260.480	Abandoned or Uncontrolled Sites (Registry)
RSMo 260.565 through 260.609 and RSMo 447.700 through 447.708	Voluntary Remediation including Brownfields
RSMo 319.100 through 319.139	Petroleum Storage Tanks
RSMo 260.750	Environmental Radiation Monitoring
RSMo 260.1039	Missouri Environmental Covenants Act
RSMo 640.235	Natural Resources Protection Fund Damages

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6. Are there federal matching requirements? If yes, please explain.	
Performance Partnership Grant - RCRA	25% State (EPA)
Brownfields 128 (a)	100% Federal (EPA)
Brownfields 104 (k)	100% Federal (EPA)
Defense/State Memorandum of Agreement (DSMOA)	100% Federal (DOD)
Ellisville Superfund Cooperative Agreement	100% Federal (EPA)
Formerly Utilized Sites Remedial Action Project (FUSRAP)	100% Federal (Army Corp of Engineers)
United States Department of Agriculture - Grain Bin Sites	100% Federal (USDA)
Superfund Combined Cooperative Agreement - Core	10% State (EPA)
Superfund Combined Cooperative Agreement - Pre-Remedial Response	100% Federal (EPA)
Superfund Combined Cooperative Agreement - Support Agency	100% Federal (EPA)
Weldon Spring Long-Term Surveillance and Maintenance Project	100% Federal (DOE)
Leaking Underground Storage Tank-Preventative	25% State (EPA)
Leaking Underground Storage Tank Trust Fund-Corrective Action	10% State (EPA)
Minuteman II Longterm Stewardship	100% Federal (DOD)
General Services Administration (GSA) - Environmental Project Assistance	100% Federal (GSA)
Madison County OU3 Reverse Cooperative Agreement	100% State (EPA)
Oronogo Duenweg OU1 Reverse Cooperative Agreement	100% State (EPA)
Various State Superfund Contracts	10% State (this covers our 10% state Superfund obligation)
Tri-State Mining District Restoration Compensatory Determination Plan	100% Federal (US Fish and Wildlife Service)
Greenfields Multistate Agreement	100% Federal (Multistate Trust)
7. Is this a federally mandated program? If yes, please explain.	
<p>Through delegation from, and agreements with, the U.S. Environmental Protection Agency, the Environmental Remediation Program supports the federal Resource Conservation and Recovery Act (RCRA), Section 9004 of the Solid Waste Disposal Act as amended by RCRA, the Superfund Amendments and Reauthorization Act of 1986, and 40 CFR Part 281. In addition, work performed under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), as well as cleanup oversight at Federal Facilities sites, is mandated by the federal government.</p>	