

## PROGRAM DESCRIPTION

**Department of Natural Resources**

**HB Section(s): 6.225, 6.285**

**DEQ - Environmental Services Program**

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

### **1a. What strategic priority does this program address?**

The Environmental Services Program helps Missouri citizens thrive 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 community infrastructure, strengthening workforce, and supporting economic development.
- Improving internal processes to better serve our customers.

### **1b. What does this program do?**

The Environmental Services Program (ESP) produces environmental data used by the Department's programs. Areas of emphasis include:

- Air Quality Monitoring
  - Ambient air monitoring 365 days a year at 42 key locations across Missouri (monitoring discontinued at St. Joseph Lead Sampler Site in FY2022)
  - 193 monitoring instruments generate 10,000,000 measurements annually
  - 6,000 quality control checks annually
- Chemical Analysis of Environmental Samples (Laboratory)
  - Report over 270,000 results from over 20,000 samples annually
  - Chemical analysis of public water supplies statewide
  - Certification of other laboratories performing chemical analysis of drinking water samples
  - Chemical analysis of soil and non-potable water samples
- Water Quality Monitoring
  - Field collection of approximately 1,400 samples annually (includes non-potable water, sediment, and fish tissue samples)
  - Completion of over 1,000 sampling events at approximately 353 sites annually
  - Process approximately 90 samples providing microscopic identification of 75,000 macroinvertebrates annually to assess Missouri stream health
  - Analyze approximately 600 samples annually collected from public swim areas at state parks for E.coli
- Monitoring and Support
  - Conduct over 250 performance evaluations/audits of public and private air-monitoring instruments to ensure accuracy and performance
  - Maintain over 200 Standard Operating Procedures to ensure consistency and quality of data
  - Conduct over 30 sampling investigations at 24 hazardous waste sites each year

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

ESP serves Missouri citizens impacted by disasters and environmental emergencies.

- Environmental Emergency Response
  - Help mitigate hazardous substance emergencies and provide environmental support during natural disasters
  - Staff emergency spill line with qualified hazardous-materials technicians 24 hours a day, 365 days a year
  - Almost 900 spills, leaks, and other hazardous substance incidents reported annually; provide on-scene response as needed

Hazardous Substances Analysis & Emergency Response PSD: In cases where a responsible party cannot be located or fails to take timely action, ESP responds on-scene and may hire a contractor to address threats to public health and/or the environment.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Current</b>	<b>Gov Rec</b>
Environmental Services Operations (78885C)	4,940,639	4,953,309	5,212,262	6,172,446	6,172,446
Hazardous Subst & Emergency Resp (79475C)	135,520	48,807	59,360	450,000	350,000
Total	5,076,159	5,002,116	5,271,622	6,622,446	6,522,446

**(1)**

(1) Included above is \$32,668 actual FY 2022 GR spending from the agency wide DNR PS budget unit related to FY 2022 supplemental pay plan.

## PROGRAM DESCRIPTION

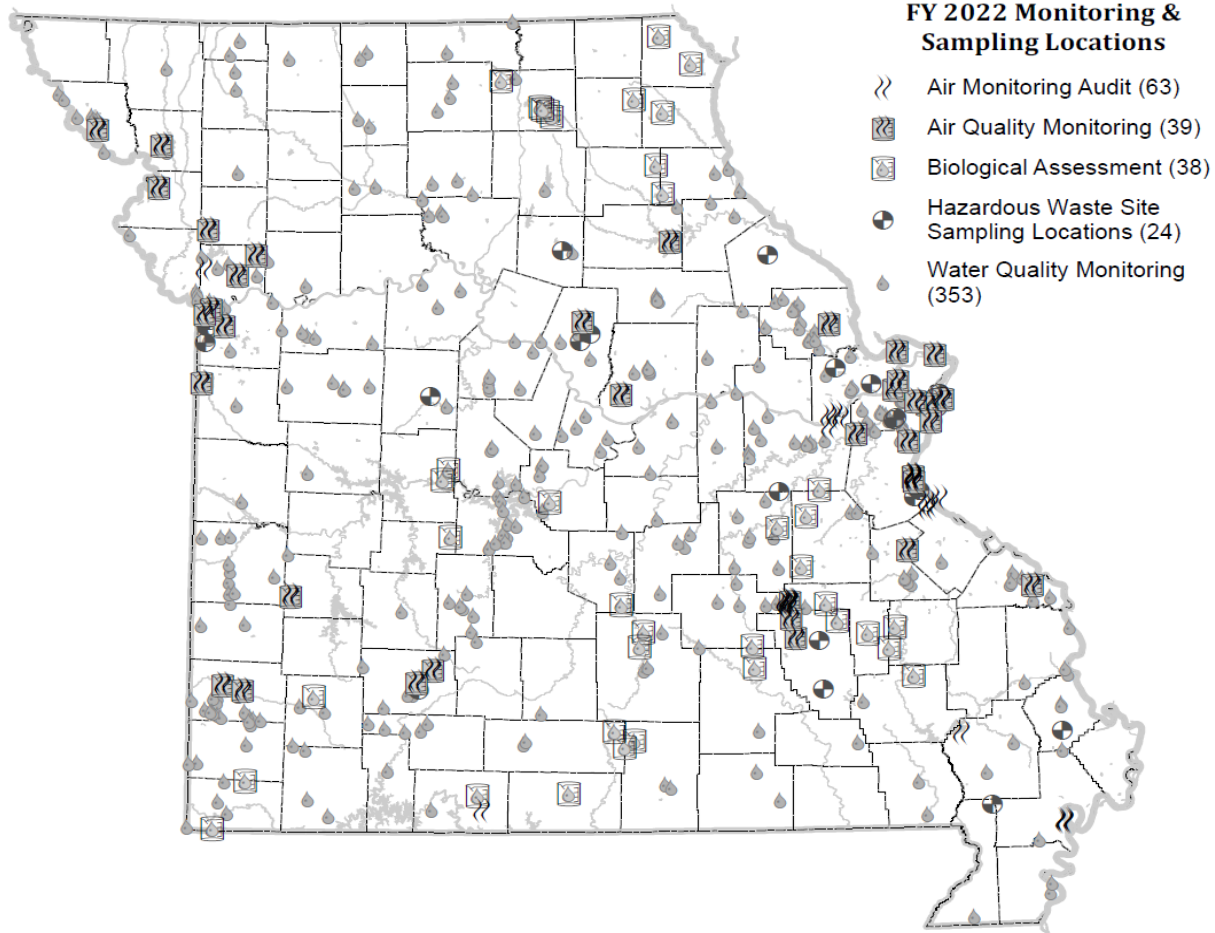
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DEQ - Environmental Services Program

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



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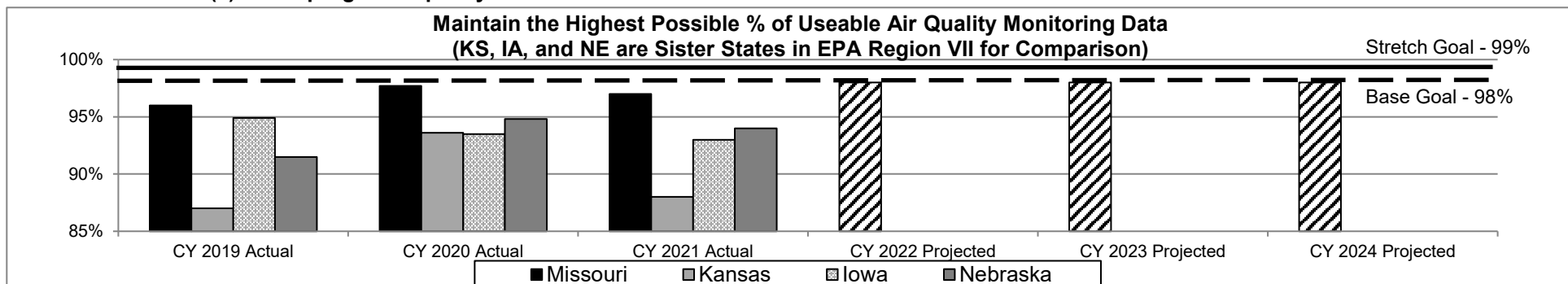
**Department of Natural Resources**

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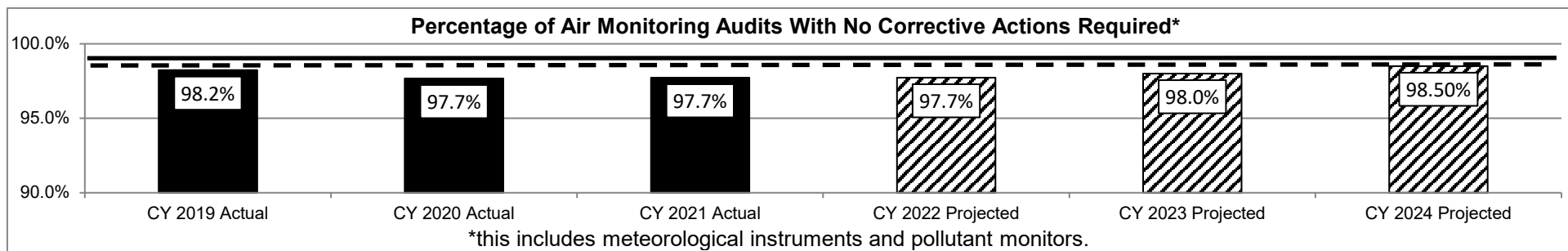
**DEQ - Environmental Services Program**

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



The Department operates 193 air-monitoring instruments at 42 (monitoring discontinued at St. Joseph Lead Sampler Site in FY2022) locations throughout Missouri. The instruments in the network collect air pollution data required by the Clean Air Act, which addresses specific Missouri air quality health concerns. Data are “useable” if they pass quality-control checks and validation measures. The Department needs useable data to make decisions that ensure steady progress in reducing smog-forming pollution and protecting public health in communities across the State of Missouri. CY 2019 saw a decline due to severe flooding, which resulted in a monitoring site being off-line for an extended period, but future years have rebounded back to prior levels.



The Department performs approximately 264 internal audits throughout the year on all data-collection efforts across the entire statewide air monitoring site network. These audits ensure the quality and defensibility of the data collected, by independently verifying standardized methods and procedures are followed. The base goal is 98.5% and the stretch goal is 99%.

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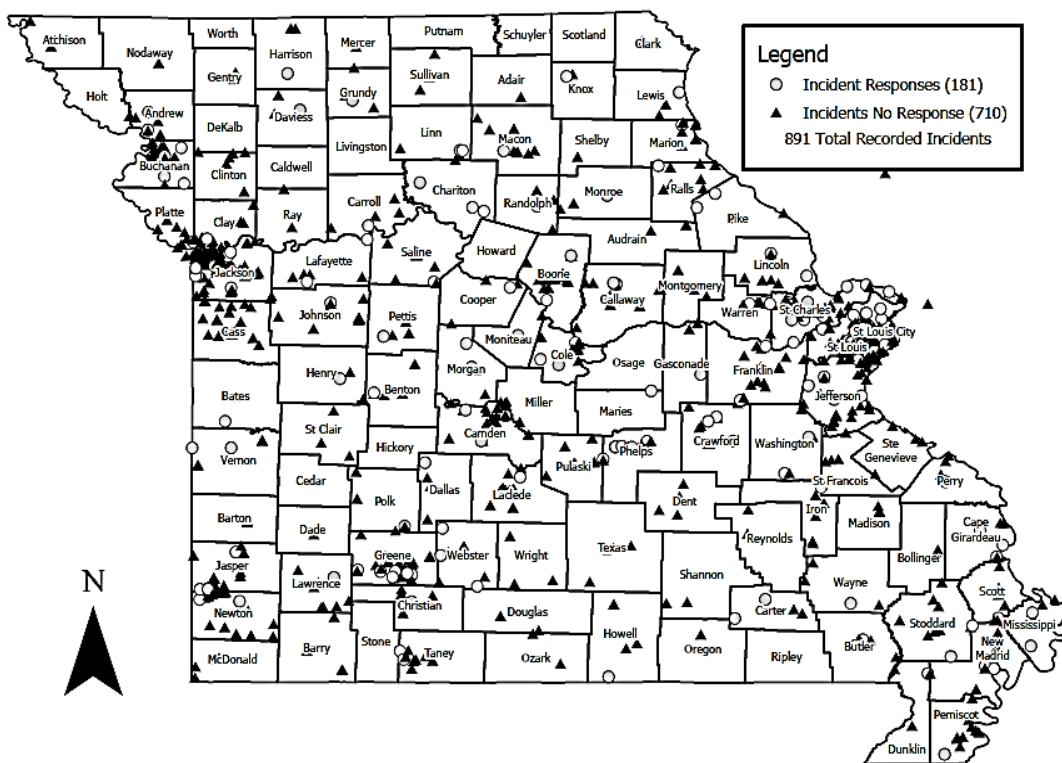
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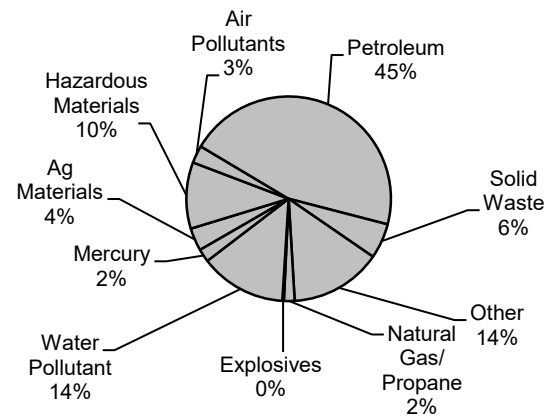
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2c. Provide a measure(s) of the program's impact.

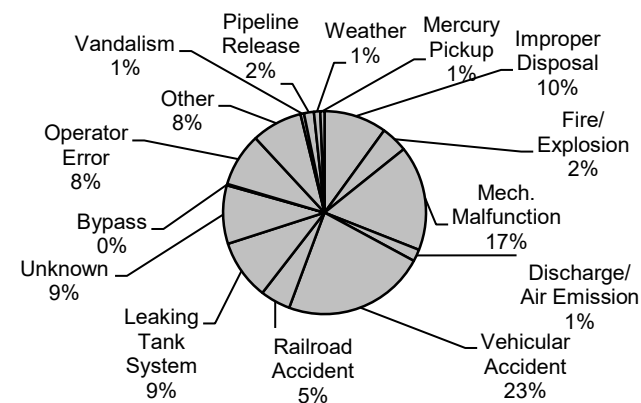
### Environmental Emergency Response Incidents and Responses FY2022



### Environmental Emergency Response (EER) FY 2022 Materials Released



### Environmental Emergency Response (EER) FY 2022 Incident Causes



### PROGRAM DESCRIPTION

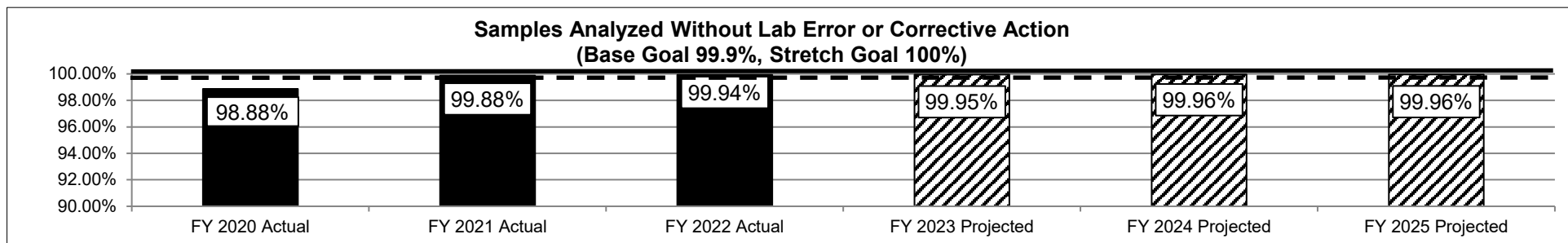
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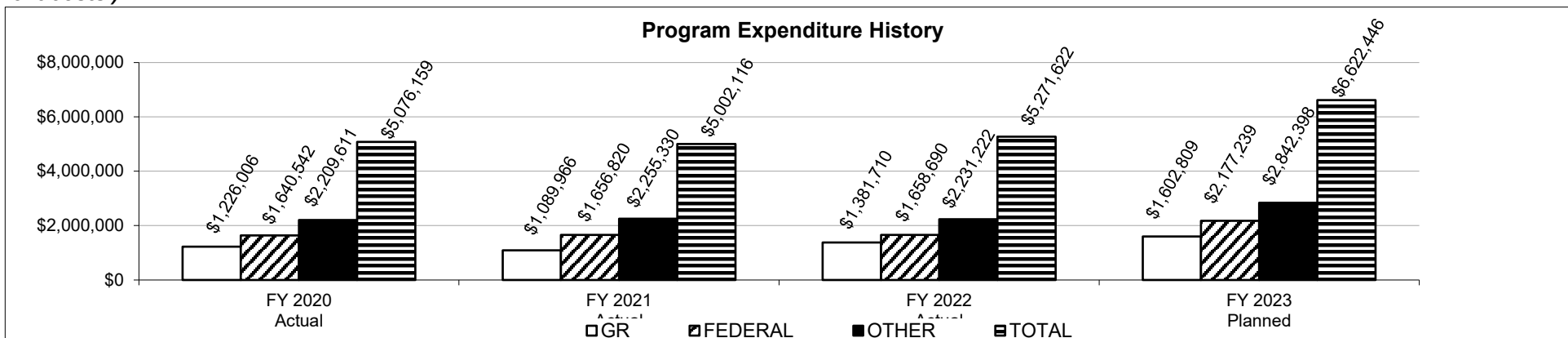
Program is found in the following core budget(s): Environmental Services Program

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



Occurrences in the laboratory that prevent the reporting of results for a sample are deemed "Laboratory Errors" and require Corrective Actions to minimize further instances. ESP analyzes over 20,000 samples annually and strives to keep Laboratory Errors to a minimum. In FY 2020, ESP had 230 samples requiring corrective action, 212 were disqualified as being biased high. An investigation of the concern resulted in minor modifications to the method and some equipment replaced, which resolved the issue. Both FY 2021 and FY 2022 saw significantly less errors with 24 and 15 respectively.

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.)



Included above is \$32,668 actual FY 2022 GR spending from the agency wide DNR PS budget unit related to FY 2022 supplemental pay plan.

Financial data includes operating and pass-through appropriations. FY 2023 Planned is shown at full appropriation.

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

Natural Resources Protection Fund - Damages Subaccount (0555); Natural Resources Protection Fund - Water Pollution Permit Fee Subaccount (0568); Solid Waste Management Fund (0570); Natural Resources Protection Fund - Air Pollution Permit Fee Subaccount (0594); Environmental Radiation Monitoring Fund (0656); Hazardous Waste Fund (0676); and Safe Drinking Water Fund (0679)

### 5. What is the authorization for this program, i.e., federal or state statute, etc.? (Include the federal program number, if applicable.)

Federal Clean Water Act, as amended

Federal Safe Drinking Water Act, as amended

Federal Clean Air Act, with amendments, 1990

Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended

Federal Superfund Amendments and Reauthorization Act of 1986

Federal Resource Conservation and Recovery Act of 1976, as amended

Federal Solid Waste Disposal Act of 1976, as amended

Oil Pollution Act of 1990

RSMo 260.500 through 260.552

Hazardous Substance Emergency Response

RSMo 260.818 through 260.819

Oil Spill Response, National Contingency Plan

RSMo 640.040

Cleanup of Controlled Substance

RSMo 260.750

Environmental Radiation Monitoring

Also see program authorization in the core operating budgets for the Division of Environmental Quality's (DEQ) Water Protection Program, Air Pollution Control Program, Environmental Remediation Program, and Waste Management Program.

### 6. Are there federal matching requirements? If yes, please explain.

Grant funding through various DEQ programs

Varies

### 7. Is this a federally mandated program? If yes, please explain.

The Environmental Services Program provides support to implement the Clean Water Act; the Safe Drinking Water Act; the Clean Air Act; the Resource Conservation and Recovery Act; the Comprehensive Environmental Response, Compensation, and Liability Act; and the Superfund Amendments and Reauthorization Act.