

PROGRAM DESCRIPTION

Department of Natural Resources

HB Section(s): 6.225, 6.280

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 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/year at 43 key locations across Missouri
 - 191 monitoring instruments generate 10,000,000 measurements annually
 - 6,000 quality control checks annually
- Chemical Analysis of Environmental Samples (Laboratory)
 - Report 230,000 results from 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 over 1,200 samples annually (includes non-potable water, sediment, and fish tissue samples)
 - Completion of over 700 sampling events at approximately 400 sites annually
 - Process approximately 80 samples providing microscopic identification of 70,000 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 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
 - Coordinate with law enforcement to facilitate safe and economical disposal service for wastes generated from clandestine drug lab busts
 - Conduct over 30 sampling investigations at over 20 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
 - Approximately 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 or the environment.

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 Services Operations (78885C)	5,082,499	5,132,032	4,940,639	5,882,144	5,814,968
Hazardous Subst & Emergency Resp (79475C)	93,259	73,566	135,520	600,000	500,000
Total	5,175,758	5,205,598	5,076,159	6,482,144	6,314,968

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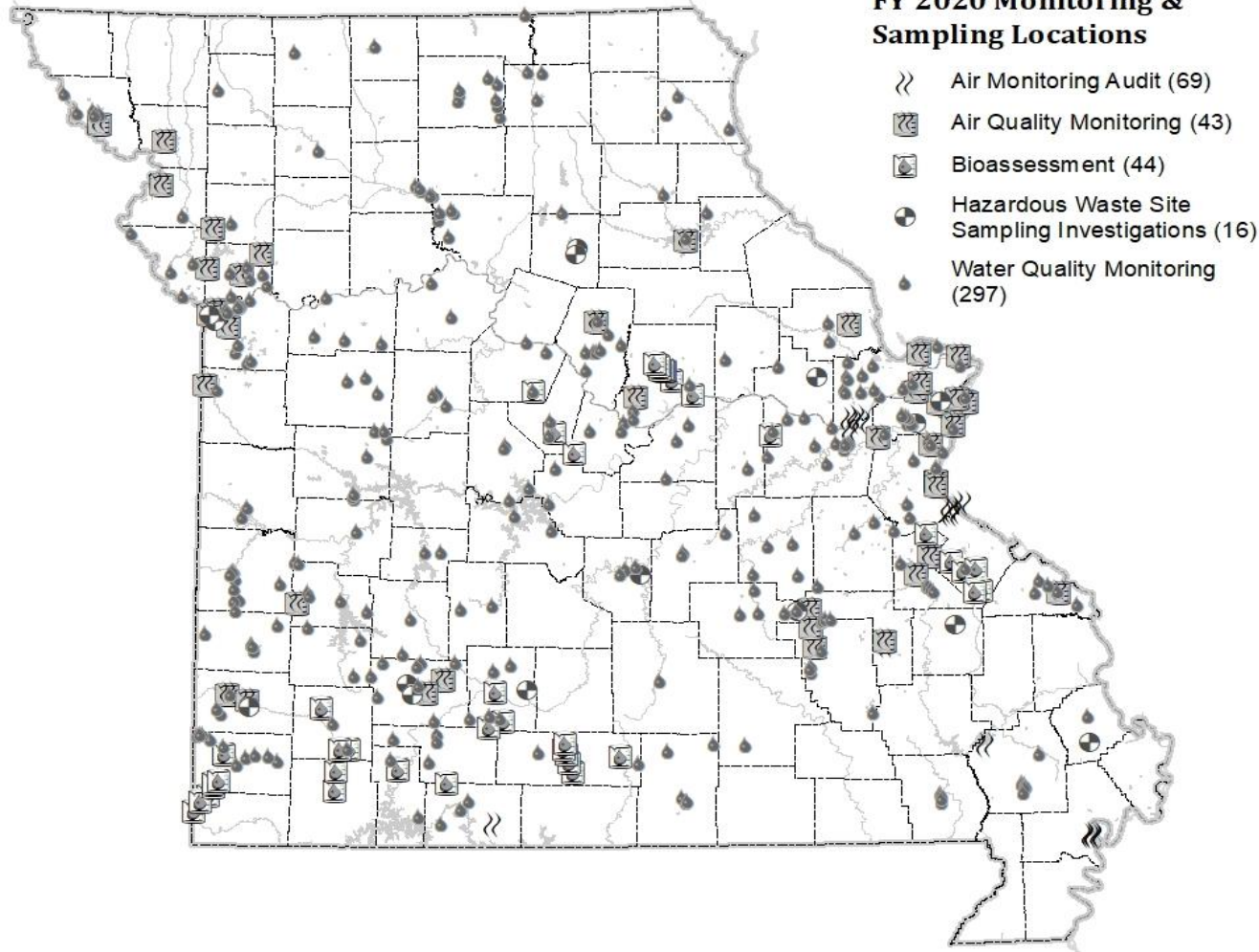
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2a. Provide an activity measure(s) for the program.



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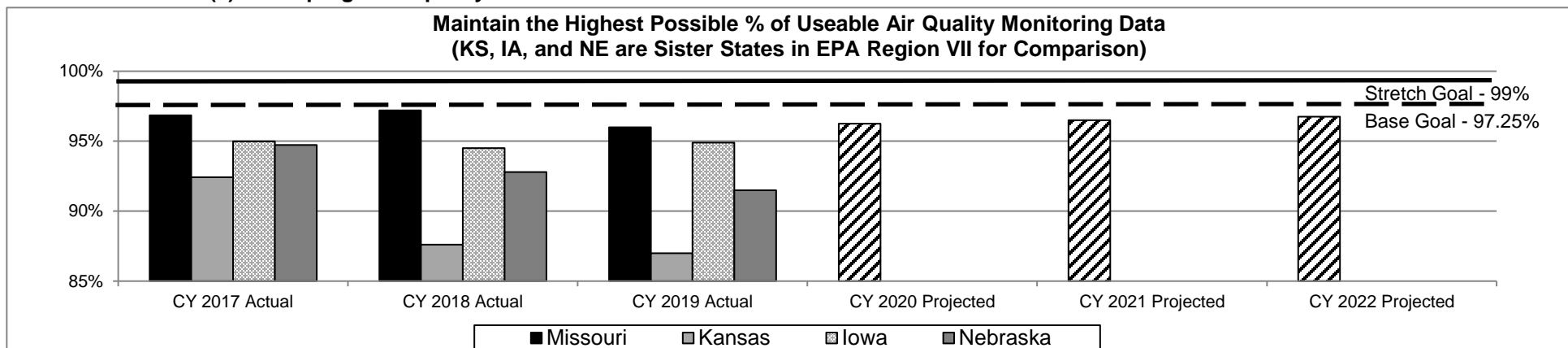
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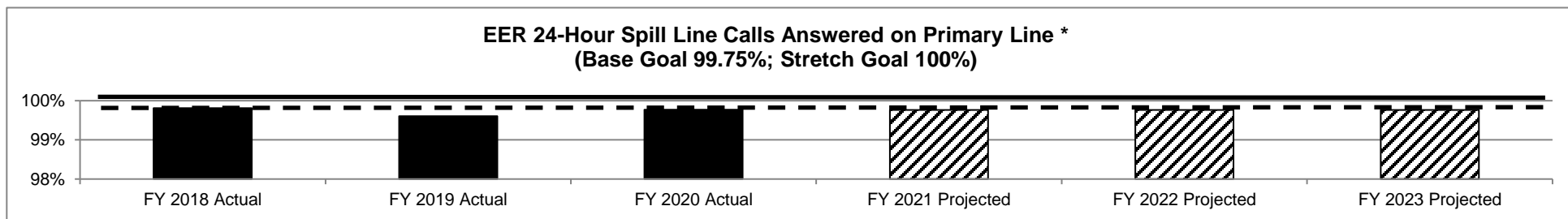
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2b. Provide a measure(s) of the program's quality.



The Department operates 191 air-monitoring instruments at 43 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.



* While all calls are answered, the assigned Duty Officer strives to answer the call before it rolls to a secondary number.

Statute requires provision of a 24/7 telephone number [(573) 634-2436] to be used to notify the state whenever a hazardous substance emergency occurs. This number is monitored by technical staff capable of advising the person reporting the emergency of proper, immediate actions. During normal business hours, the line is staffed within the program office. After normal business hours, EER Duty Officers rotate responsibility to answer the emergency telephone line from their private residence. In FY 2018 through FY 2020, an average of nearly 1,000 hazardous substance incidents were reported annually.

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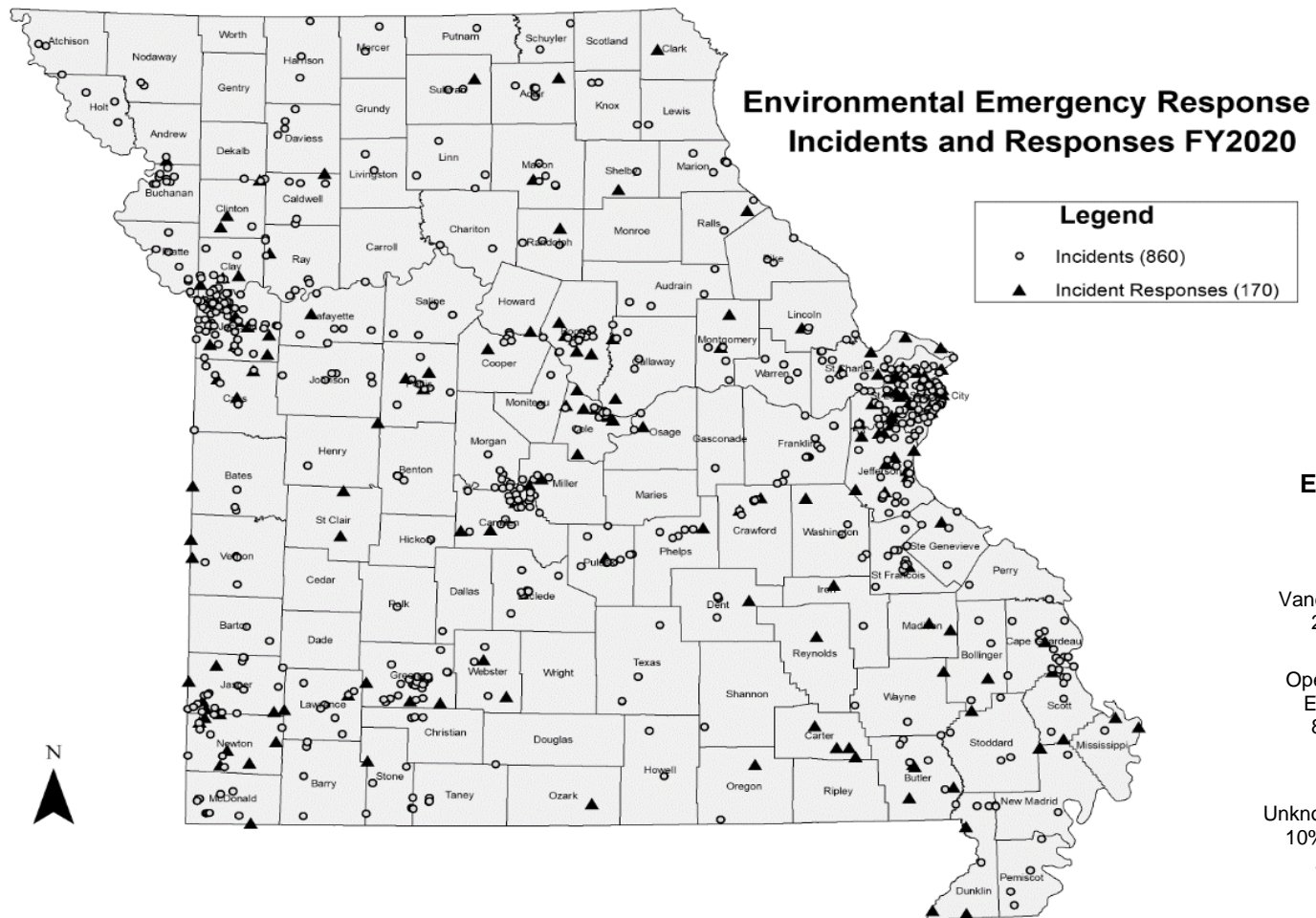
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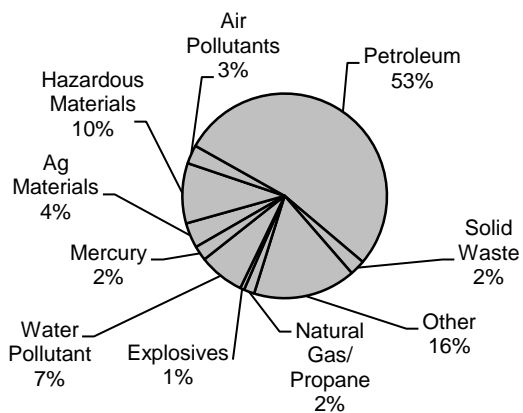
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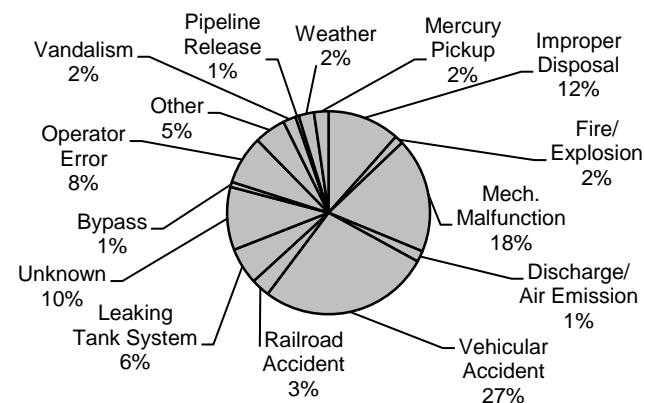
2c. Provide a measure(s) of the program's impact.



Environmental Emergency Response (EER) FY 2020 Materials Released



Environmental Emergency Response (EER) FY 2020 Incident Causes



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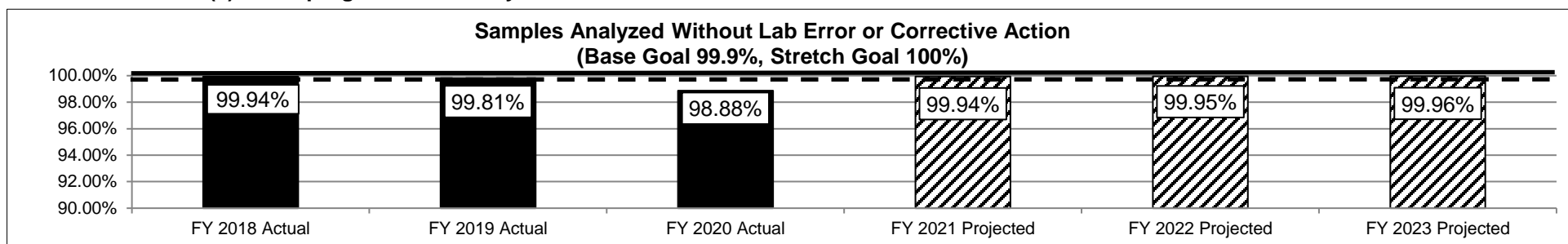
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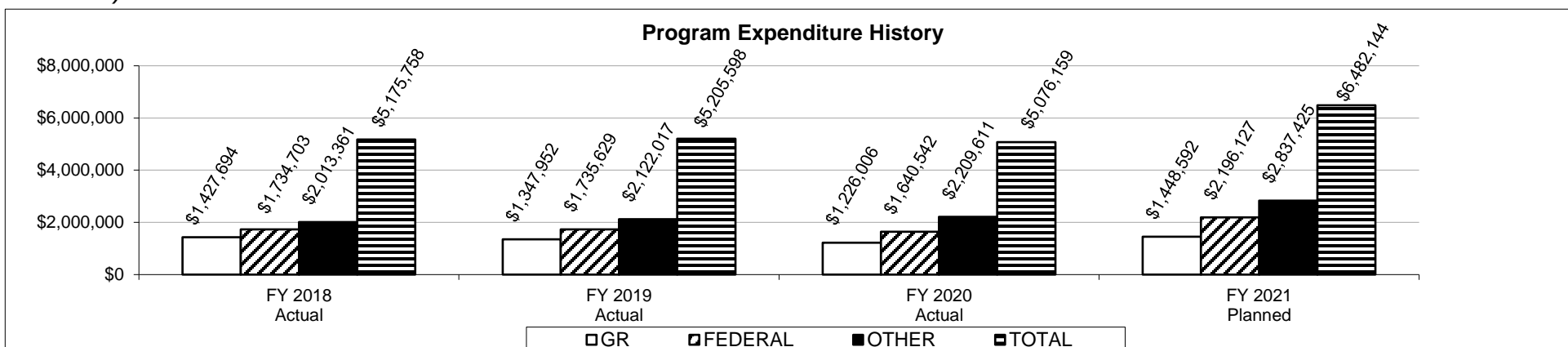
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2d. Provide a measure(s) of the program's efficiency.



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 2019, there was a single incident where a tray of 25 samples was left out overnight. ESP has instituted a control measure to reduce the possibility of a recurrence. Of the 230 samples requiring corrective action in FY 2020, 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.

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.)



Financial data includes operating and pass-through appropriations. FY 2021 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.

Funds from MO Drug Lab Task Force through Department of Public Safety's Byrne Grant	100% Federal
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.