

Odors: What's that smell?

Air Pollution Control District
December 6, 2022



Control of Objectionable Odors

APCD Regulation 1.13 *Control of Objectionable Odors in the Ambient Air*

No person shall emit or cause to be emitted into the ambient air any substance that creates an objectionable odor beyond the person's property line.

Control of Objectionable Odors

APCD Regulation 1.13 [Control of Objectionable Odors in the Ambient Air](#)

An odor will be **deemed objectionable** when a documented investigation by the District includes, as a minimum:

- Observations on the odor's nature, intensity, duration, and location, and
- Evidence that the odor causes injury, detriment, nuisance, or annoyance to persons or to the public

For more information on how APCD investigates odors, please review the [Standard Operating Procedure for Odor Investigations](#).

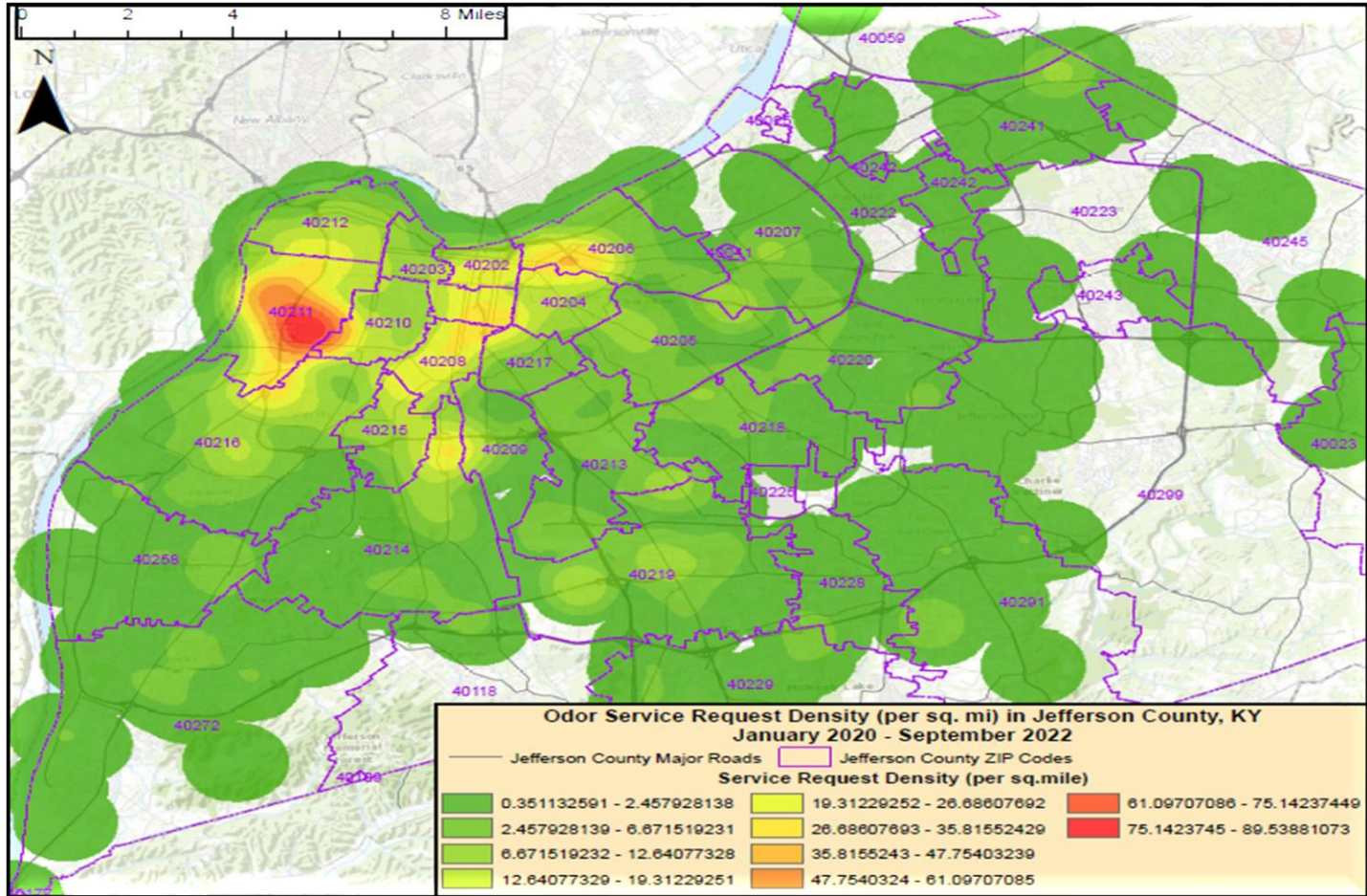
Sources of Objectionable Odors

Objectionable odors can come from **many** sources:

- **Animal operations:** Livestock hauling, food processing, leather tanning
- **Industry:** Landfills, chemical manufacturing processes, painting, distilleries
- **Sewage:** Wastewater treatment plants, catch basins
- **Other:** Restaurants, spray paint, roofing, paving
- **Vehicles:** Odors associated with diesel exhaust, garbage trucks, burning oil
- **Nature:** Compost, wet soil, forest fires, trees

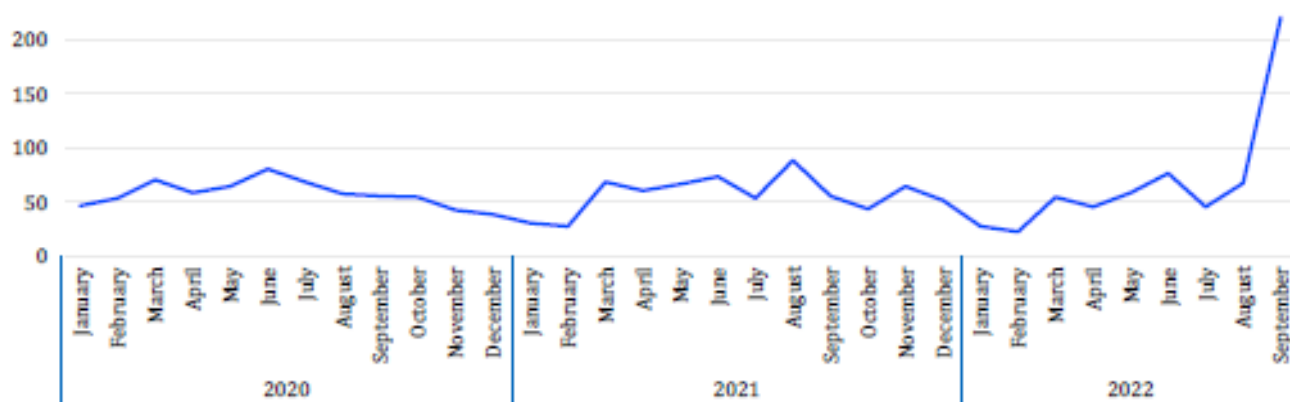
Odor Complaints in Louisville

2020 - 2022

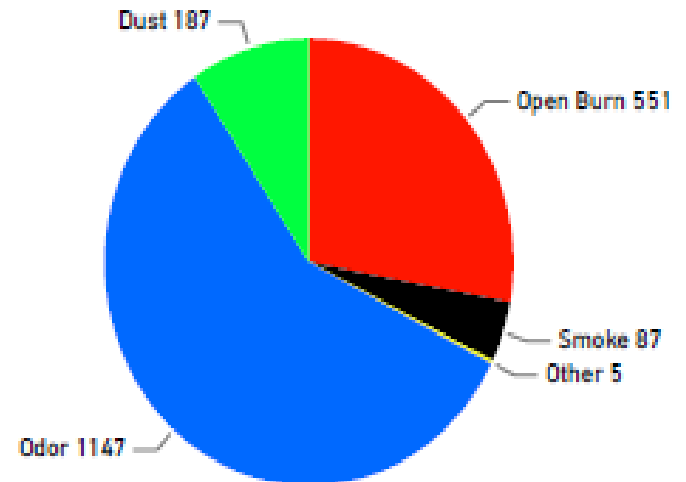


Complaints by the Numbers

Total Service Requests Started by Year and Month



- Open Burn
- Smoke
- Other
- Odor
- Dust



Data period: 1/1/2020 – 9/30/2022
Total Investigations Started: 1,977

Odor Service Request Dashboard

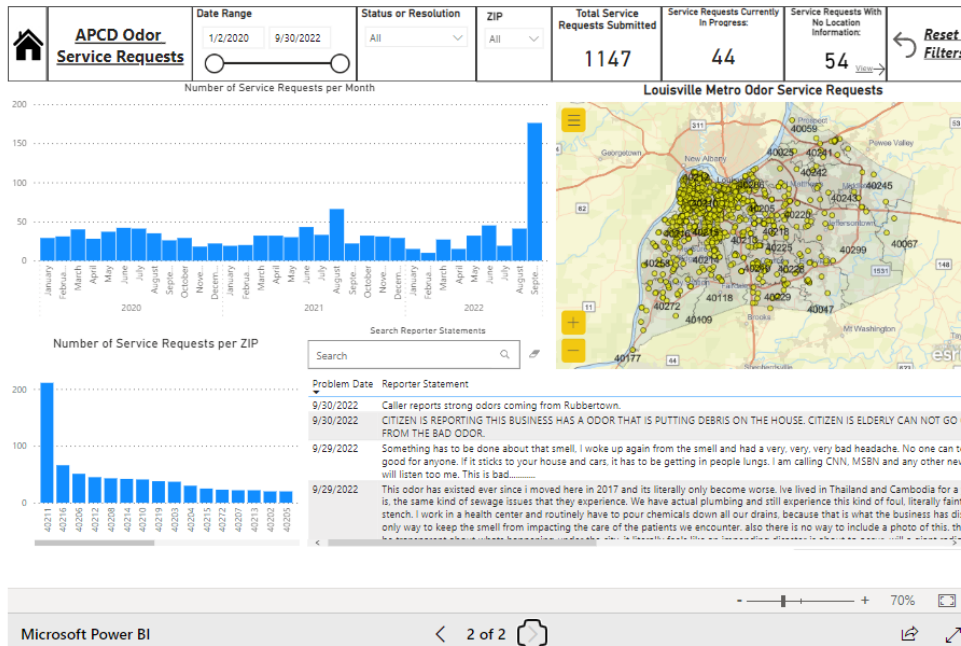
Microsoft Power BI < 1 of 4 >

Odor Service Request Dashboard

This dashboard contains a map and graphs that visualize Air Pollution Control District odor service requests, which are digital records of investigations taken by the District in response to an odor or odor report from a Louisville resident.

A video tutorial on using the dashboard has been made available here.

Not working or too small? Open APCD Odor Service Request Dashboard in new tab



- This dashboard contains a map and graphs that visualize APCD odor service requests, which are digital records of investigations taken by APCD in response to an odor or odor report from a Louisville resident.

- For the Dashboard, go to: <https://louisvilleky.gov/government/air-pollution-control-district/louisvilles-air-quality-data>

- For help, watch a video tutorial at: <https://www.youtube.com/watch?v=5HZHLQ-kSHM>

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Monthly Complaints Investigation Report

- Monthly overview of complaints and investigation of complaints.
- Closed investigations are retained by the APCD and are referenced during future investigations.

CSR #	Type	Request Date & Time*		Location	Summary of Complaint	Summary of Inspection Notes & Current Status
5242037	Dust	3/19/19	3:03 PM	1225 S 15th St.	<p>The complainant stated that dust is being tracked out of Freedom Metals.</p> <p>The caller did not leave their information to be updated on the investigation.</p>	<p>The CO observed tire tracks from the exit of Freedom Metals onto 13th St, St. Louis Ave, and 12th St. After about five minutes an employee from Freedom Metals was seen watering down the road with a hose. A truck was observed exiting the facility creating clouds of dust. The CO contacted a manager from Freedom Metals who said that a major piece of machinery had gone down the previous day. He had pulled many employees to work on it, one of which is in charge of monitoring dust control. He said that allowing this to continue was not an option and he would get someone on it immediately.</p> <p>This investigation has been referred to enforcement.</p>
5245772	Burn	3/25/19	10:33 AM	1012 Springview Dr	<p>The complainant stated that their neighbor is burning trash continuously.</p> <p>The complainant was called and a voicemail was left to update them on the investigation.</p>	<p>The CO observed a firepit that was within regulation being used to burn clean, dry firewood with no evidence of trash being burned. He explained the regulations to them and told them they were not doing anything illegal.</p> <p>The investigation was closed as 'No Problem Found.'</p>
5246046	Odor	3/25/19	1:20 PM	1609 Lyman Johnson Dr	<p>The complainant reported a strong chemical odor that dissipated 45 minutes after noticing it.</p> <p>The CO called the complainant to update them on the investigation.</p>	<p>When the CO arrived he was not able to detect any objectionable odor.</p> <p>The APCD will continue to perform surveillance in the area.</p>

Current Efforts

MSD Enforcement Action

- MSD is subject to an ongoing [Agreed Board Order](#) with the Air Pollution Control Board to resolve odor violations that occurred during the summer of 2019 when flow within the combined sewer system was reduced due to hot, dry weather conditions similar to those experienced this summer.
- The [Agreed Board Order](#) requires that MSD:
 - Develop and implement a county-wide Odor Control Master Plan through a phased multi-year project, including periodic updates and reports.
 - Rebuild and replace untrapped catch basins in the Park DuValle neighborhood.
 - Clean all catch basins within its collection system by 12/31/2022.
 - Post catch basin cleaning schedules, complaint logs, and Technical Reports on its [Odor Control webpage](#).
 - Hold Community Meetings and develop a Communications Plan to inform the public about MSD's odor control efforts.

AMENDED AGREED BOARD ORDER NO. 21-61
LOUISVILLE METRO AIR POLLUTION CONTROL BOARD
Case No. ENF-19-0023

This Amended Order is issued by the Louisville Metro Air Pollution Control Board (Board) pursuant to Kentucky Revised Statutes Chapter 211.011 and the Pollution Control Act. This Agreement is made by and between the Board and Jefferson County Metropolitan Sewer District (MSD), a public body corporate and political subdivision, and is effective on the date of its adoption by the Board.

COMPANY: Louisville and Jefferson County
Metropolitan Sewer District
250 West Liberty Street
Louisville, Kentucky 40203

REGULATION INVOLVED:
District Regulation 1.13 Control of Objectionable Odors in the Ambient Air

NOTICE OF VIOLATION LETTER:
Case No. ENF-19-0023, dated November 4, 2019

BACKGROUND AND DISCUSSION:
MSD is a regional utility service that provides wastewater, stormwater and flood protection services to residents of Louisville and other surrounding counties. The Louisville Metro Air Pollution Control District (District) alleges that from July and August of 2019, MSD failed to control objectionable odors from storm drains and the Adams Foreman Water Quality Treatment Center (Adams Foreman) in the Chickasaw, California, and Park DuValle neighborhoods. Residents of the neighborhoods complained to the District representative at times during the investigation. District compliance officers responded to the complaints and observed the odors coming from MSD storm drains and Adams Foreman during their investigations.

To fully address the violations alleged above, the parties agree to this Order requiring MSD to develop and implement a county-wide Odor Control Master Plan which reports and issues at least one the Adams Foreman service area and the collection system between SP 1200 and the Ohio River to reduce the frequency of odor complaints as mandated by the District. The parties further agree that MSD will develop an odor event outreach communication plan, a collection system maintenance/service schedule, and a publicly available complaint and MSD response log for all odor complaints.

In order to demonstrate compliance with this Order, MSD has created and filed a new position at MSD for an Odor Control and Records Manager to, among other things, create and implement the Odor Control Master Plan and provide a report to the Board on or before 12/31/2022. In order to provide MSD with technical services to implement the county-wide Odor Control Master Plan for Adams Foreman and the collection system, MSD will also provide a contract with a consultant firm to assist MSD with developing a communication plan. Such plan, at a minimum, will include MSD's website for odor control information, updates on the odor complaint submission form, technical service schedule, and a survey for concerned citizens to complete on other related issues, and assist with a minimum of 3

MSD Enforcement Action

Technical Memoranda No. 2

AECOM

To: Robin Burch
MSD Project Manager
4522 Algonquin Parkway
Louisville, KY 40211

Memo

Subject: Technical Memorandum #2- Collect

Encl: Attachment 1- Bioxide Safety Data S

1. Introduction

1.1 MFWQTC Collection System Overview

The Louisville Metropolitan Sewer District (MSD) is a 332 square miles spanning across Jefferson County project area, which takes up approximately 134 square miles. The service area boundary is shown in Figure 1-1. Wastewater is collected from the service area and transported by approximately 1,910 miles of sewer to the Morningstar Wastewater Treatment Plant (MFWQTC) for subsequent treatment.

There are currently thirteen (13) main gravity trunk stations in the MFWQTC service area. Figure 1-1 shows the collection system including service area boundaries, major collection lines, and the location of MFWQTC in relation to the collection system.

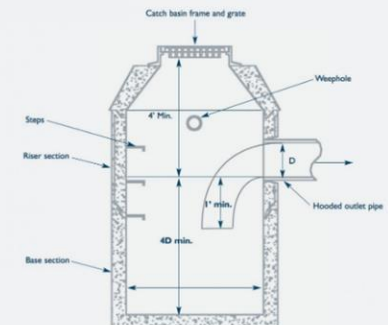
Table 3-1 OCMP Update Target Areas Summary

Priority Rank	Target Area Name	Major Sewer(s) in Target Area	Total # of Residences Affected, 2019-2020 ¹	Total # of Untrapped Catch Basins along Major Sewer ²	Total # of Untrapped Catch Basins in Target Area
1	Chickasaw	Ohio River Interceptor, Western Interceptor	65	6	221
2	Shawnee	Northwestern Interceptor, Ohio River Interceptor	50	27	232
3	California	Southern Outfall, Western Outfall	18	48	326
4	Park DuValle	Southern Outfall, Algonquin Interceptor, Young Ave Trunk	27	12	109
5	Taylor Berry	Larchmont Ave Sewer, Montana Ave Sewer	51	5	155
6	Downtown	Ohio River Interceptor	34	70	998
7	Old Louisville	Central Relief Drain	30	34	402
8	Clifton	Brownsboro Rd Trunk	27	0	213
9	Smoketown Jack/Shelby Pk	Beargrass Interceptor, Dry Run Sewer	25	3	194
10	Germantown	Beargrass Interceptor	23	29	197
11	Deer Park	Castlewood Sewer	21	16	107
12	Wyandotte/Beechmont	Mill Creek Trunk	21	26	300

¹ Total number of addresses linked to customer odor complaints from January 2019 through December 2020

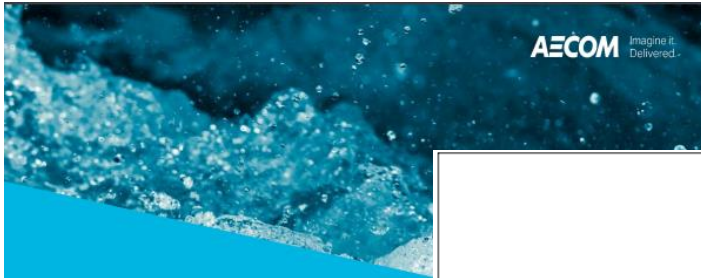
² Value represents number of untrapped catch basins located within 10-feet of large diameter sewer centerline (greater than 36-in diameter)

Figure 11-S3-1 Typical Deep Sump Catch Basin



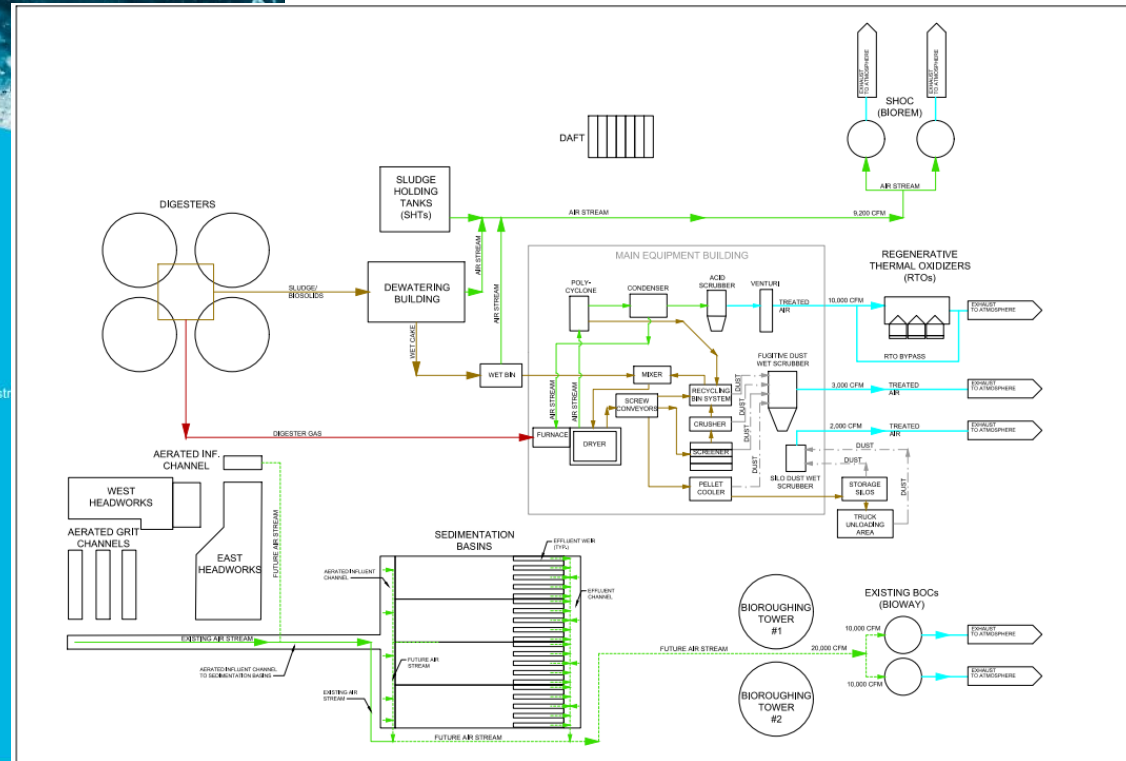
MSD Enforcement Action

Morris Forman WQTC Odor Control Master Plan Interim Final Report



Morris Forman WQTC Odor Control Master Plan Interim Final Report

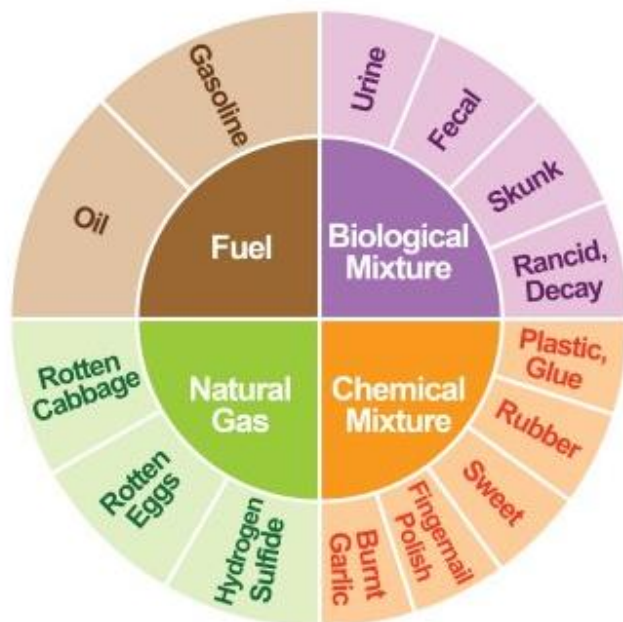
Louisville and Jefferson County Metropolitan Sewer District
December 2021



EPA Odor App Pilot Project



- Louisville-specific Odor Wheel
- Remotely Operated Canister Samplers



Louisville Odor Wheel.



Remotely Operated Canister Sampler (ROCS) Prototype.

Reporting Odors

Reporting Odors Impacting Your Immediate Health or Safety

If an odor is affecting your immediate health and safety – such as burning your eyes or causing physical discomfort – immediately call

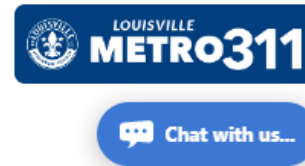
911

Reporting Objectionable Odors

- Air Pollution Control District



- Metro311 (Online Portal or Mobile App)



- SmellMyCity (Mobile App)



- MSD



Resources

Air Pollution Control District

Louisvilleky.gov/APCD

MSD

Louisvillemsd.org/

Customerrelations@louisvillemsd.org

Environmental Protection Agency (EPA)

EPA.gov

EPA.gov/Region4

Air Pollution Control Board

Louisvilleky.gov/government/air-pollution-control-district/air-pollution-control-board

Metro311

Louisvilleky.gov/government/metro311

Smell My City

<https://smellmycity.org/>

Questions?

Louisville Metro Air Pollution Control District

701 W. Ormsby Ave.
Ste. 303
Louisville, Ky. 40203

(502) 574-6000

www.louisvilleky.gov/APCD

Rachael Hamilton, Director