

Michelle King Director of Program Planning Louisville Metro Air Pollution Control District Region 4 Fall Air Directors' Meeting November 30, 2018



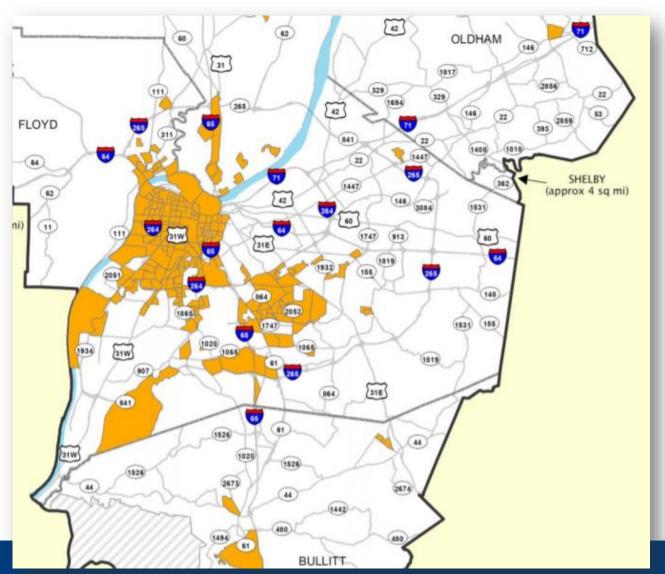
Environmental Justice (EJ)

- The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.
- It's achieved when everyone enjoys the same degree of protection from environmental and health hazards and equal access to the decision-making process to have a healthy environment in which to live, learn, and work.

- <u>U.S. Environmental Protection Agency</u>

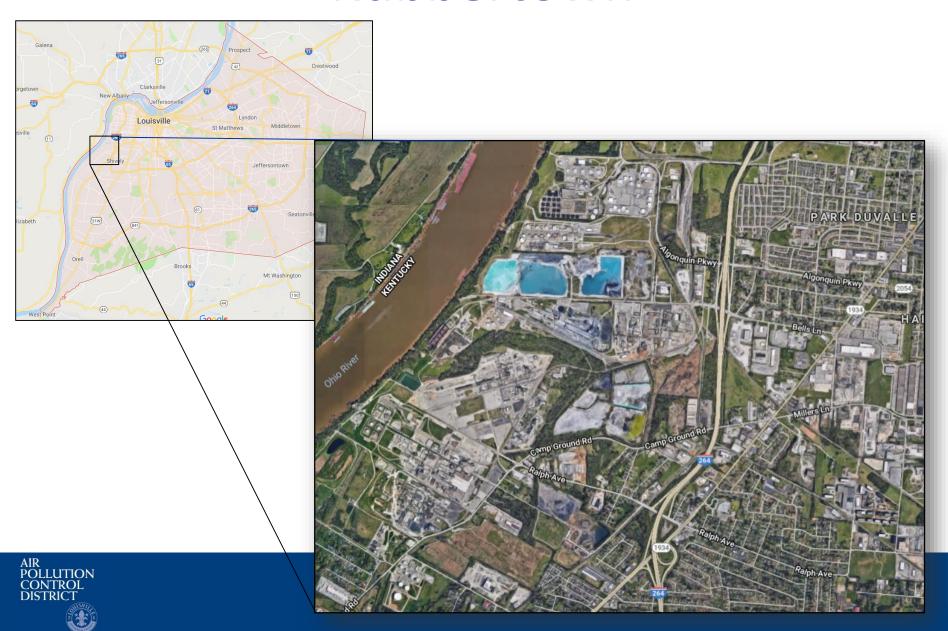


EJ Study Areas





Rubbertown



Rubbertown

- Industrial area located in west Louisville, KY
- 1918 Formation of the Standard Oil Refinery; the facility set the stage for future industry in the area
- World War II (1939-1945) West Louisville industrial area starts producing synthetic rubber for tires and other key components used during the war; area now called "Rubbertown"







Rubbertown

 1996 – Formation of the West Jefferson County Community Task Force (WJCCTF)

 Early 2000's – Health assessments conducted in Rubbertown neighborhoods; assessments found a greater risk of cancer and other

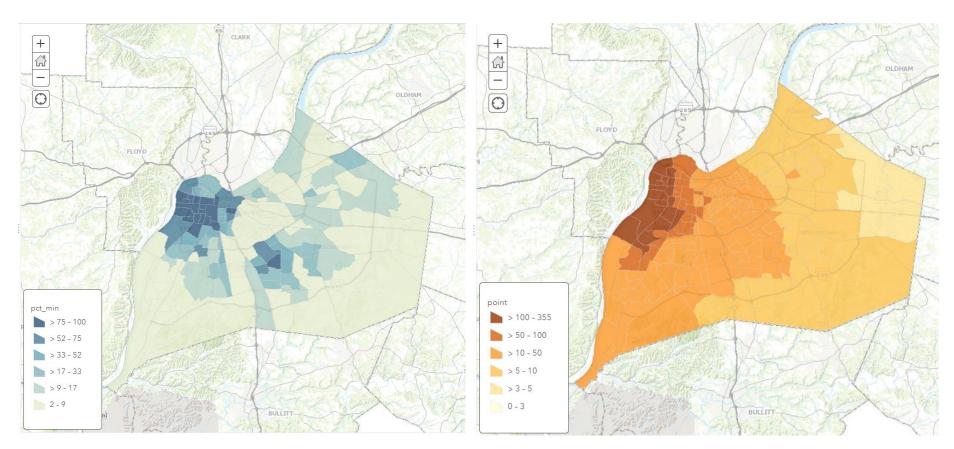
illnesses to Rubbertown residents compared to other areas in Louisville; West Louisville Air Toxics Study identified 17 carcinogens with risk greater than one in a million (1x10-6)





EJ in Louisville

2000 Census Percent Minority v 2005 NATA Risk (in a million), Point Sources



Data sourced from <u>EPA EJSCREEN</u> and the <u>National Air Toxics Assessment (NATA)</u> data tools.



Strategic Toxic Air Reduction Program Timeline

1996 - 2000

WJCCTF formed; WJCCTF begins hosting monthly meetings Sept. 2004

First Draft STAR Program **July** 2005

Adopted STAR Program













2000 **-** 2003

West Louisville Air Toxics Study Jan. 2005

Proposed STAR Program 2005 -Present

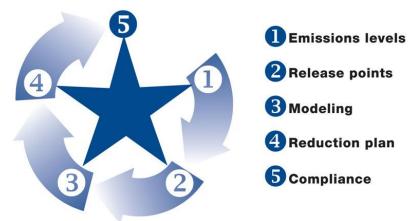
Implementation



STAR Program Highlights

- Provides a framework for determining the environmental acceptability of toxics
- Requires APCD to assess and address other toxic emissions
- Requires companies to assess and address







Community Involvement

BEFORE the adoption of STAR

- Multiple community meetings and public forums (over 60)
 held to discuss the STAR Program & the draft regulations
 - Monthly presentations by EPA, local industries, local agencies, community groups and citizens/Rubbertown residents
- Built consensus on key issues
 - e.g., location of monitoring sites, target level risks, pollutants of concern
- Opportunities for public comment





Community Involvement

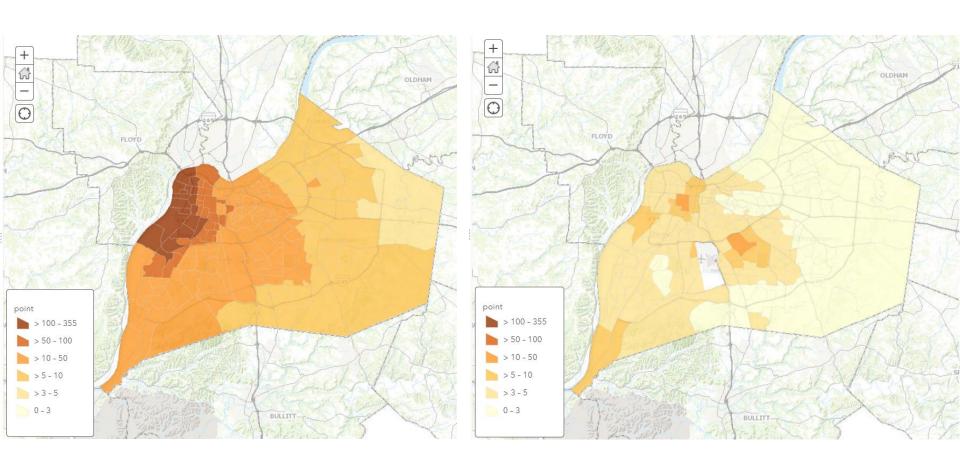
AFTER the adoption of STAR...

- Stakeholder Groups
 - STAR Implementation Advisory Group (2005 2007)
 - Reviewed "nuts and bolts" of the newly adopted STAR Program
 - STAR Regulation 5.30 Stakeholder Group (2005 2007)
 - Developed, reviewed, and commented on the report assessing the risk to human health and welfare and the "Plan of Action" to reduce risk from smaller sources emitting toxic emissions throughout the community
 - STAR Advisory Group (ad hoc)



Progress to Date

2005 v 2014 National Air Toxics Assessment – Point Sources





Continued Efforts: Air Toxics Monitoring

Expanded air monitoring network; added Auto GC in Rubbertown to monitor air toxics of concern and select volatile organic compounds with high photochemical reactivity

Monitoring objectives include:

- Generating near real time, quality-assured data
- Providing air pollution data to the community in a timely way
- Supporting academic and scientific research
- Improving access to data via APCD's website and U.S. EPA's Air Quality System (AQS) database

CAS No.	<u>Compound</u>	TAC No.	CAS No.	Compound	TAC No.
107-13-1	Acrylonitrile	1	127-18-4	Perchloroethylene (Tetrachloroethylene)	1
71-43-2	Benzene	1	79-01-6	Trichloroethylene	1
75-25-2	Bromoform	1	75-01-4	Vinyl Chloride	1
			108-88-3	Toluene	1
106-99-0	1,3 Butadiene	1	100-41-4	Ethylbenzene	2
56-23-5	Carbon tetrachloride	1	108-10-1	Methyl isobutyl ketone (4-Methyl-	4
67-66-3	Chloroform	1	10011011	2-pentanone)	•
106-46-7	1,4 Dichlorobenzene	1	100-42-5	Styrene	4
100-40-7	i,4 viciloideazere		80-62-6	Methyl methacrylate	4
75-09-2	Methylene chloride (Dichloromethane)	1	140-88-5	Ethyl acrylate	4



Continued Efforts: Air Toxics Monitoring

Firearms Training Air Monitoring Site

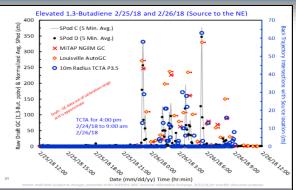


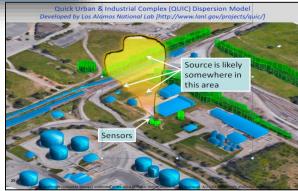


Collaborations with EPA: RARE Project





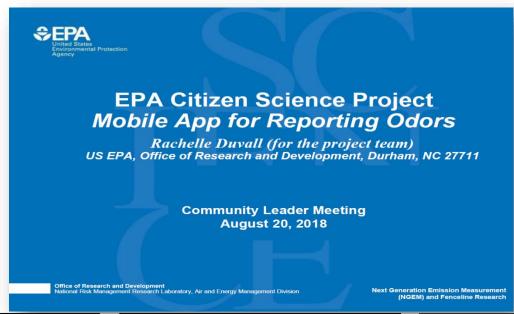






https://louisvilleky.gov/government/air-pollution-control-district/epa-air-toxics-monitoring-project-louisville

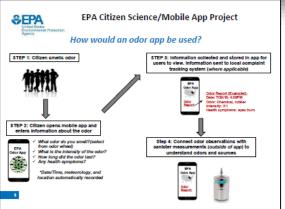
U.S. EPA RARE Project

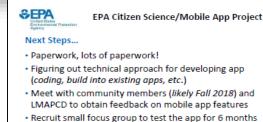




Community feedback and participation is welcome and encouraged!

· We are still brainstorming on specific features to





(pilot testing starting Spring/Summer 2019)

Make app available community wide

Rachelle Duvall, EPA/ORD (duvall.rachelle@epa.gov) Sheryl Good, EPA/R4 (good.sheryl@epa.gov) Eben Thoma, EPA/ORD (thoma.eben@epa.gov)



Continuing the Conversation

- To support opportunities for meaningful involvement by all people, APCD will continue to offer transparent and frequent opportunities for our community to learn about our work – the tools that we use and the processes through which those are applied.
- We will continue to highlight the public participation opportunities built into those processes, from reg development to implementation to enforcement.



Community Engagement Improvement Goals

- Increase accessibility of information – electronic, print, and in-person
- Increase understanding of APCD functions and regulatory obligations, as well as understanding of community concerns
- Add forums for informal discussion with community

 Provide accurate picture of current air quality, including challenges and successes, providing a foundation for future air quality improvement strategies





Outreach Engagement





Community Presence

Continued engagement with community partners







Superfund Research Center

- Sponsorship/support of partner events, including WJCCTF
 Environmental Justice
 Conference
- Increased agency presence at community events

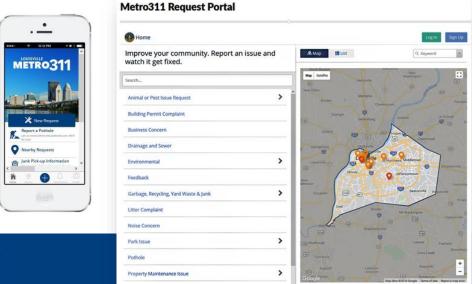




Community Presence

- Finding additional ways to communicate:
 - Door hanger for Compliance Officers
 - Odor reporting flyers
 - Odor tracking log
 - New Metro311 system!

Smoke Detector Concern





Hello,

A representative from the Louisville Metro Air Pollution Control District has been here in response to a complaint about this address. Please contact the APCD via the information below to discuss this issue.

Thanks!

Sometimes, a city is a smelly place.
Odors are part of life in a major
metropolitan area. But when a smell
becomes unbearable, the Air Pollution
Control District will try to help.

- If you believe an odor is affecting your health and safety, call 911 immediately.
- Otherwise, contact APCD to report an offensive odor. Use the phone number or email below.
- Help us track the odor. Tell us where and when you noticed it, and how long it lasted.
- Note characteristics like "strong," "sewer-like," "chemical," "burnt," "flowery," etc.
- Write down your observations, if possible.

APCD investigators will check out your complaint and, if warranted, can cite riolators who fail to address the problem.

02) 574-7321 air@louisvilleky.gov





								AU	SVIC
CONT	JTION ROL	1			ODC	R	LO	G	
DISTR	DISTRICT				INTENSITY S	CALE			
	(6	9	Slight: Odor is detectable and can be described by its characteristics or can be distinguished from other odors.					REPORT ODORS	
	Sewer Chemical Garbage Paint Rubber Manure Burnt ma	*	2	Moderate: Odor is not so strong as to	strong enough to make someone tr	block the other of	dors, but is	IMMEDIA TO AP	
Examples of odor		age	3	Strong: A person the odor.	would take a positi	ve action to atter	mpt to avoid	(502) 574	
types		ber ure	4	Very Strong: The nausea, difficulty o the level at which a	odor produces phy f breathing, irritatio a residual smell ren	siological effects in of the eyes, no nains after the o	s, such as ose, throat, or dor is gone.		
Date	Start Time	End Time	(ad	Location idress, street rsection, etc.)	Type of Odor	Intensity	Impact on People	Other Observations	Date/Time Reported to APCD

	Time	Time	intersection, etc.)	Odor	reopie	Observations	to APCD

www.louisvilleky.gov/APCD



Community Workshop Series

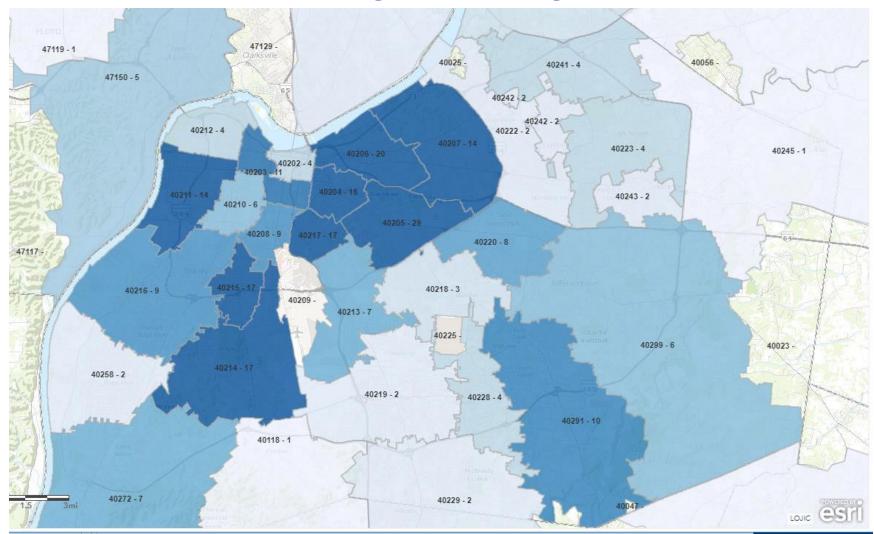
- Started with brief community survey
 - Prioritize topics from frequently discussed issues
 - Select locations and times best suited for interested community members
 - Snapshot of current perceptions
- Distributed electronically through APCD lists, social media, partner programs, peer agencies, community groups, any and all avenues







Community Survey Results





Clearing the Air Workshop Series

"Well organized & digestible. Not over-the-head. Thanks!"

"Do some YouTube videos of modules."

> "I appreciate the central location of these events."

CLEARING THE AIR

An APCD Workshop Series



QUESTIONS?

Call us at

(502) 574-6000

July 16 APCD 101/Louisville's Air Quality

uly 30 Air Quality & Health/Reducing My Pollution Impact

Aug. 13 Odors: Reporting and Responding

Aug. 27 The APCD Regulatory Process

Sept. 10 How We Monitor Air Quality

Sept. 22 Understanding Risk: A Technical Workshop*

(How to use EJ Screen, TRI, and other EPA data tools)

Sept. 24 The STAR Program/Environmental Justice













Workshops held at the Louisville Free Public Library, 301 York St. Each session is 5:30-7 p.m.

 $(\hbox{``Technical Workshop 10 a.m.-2 p.m. Registration Required. Send email to Clearing The Air@louisvilleky.gov)}$

www.louisvilleky.gov/APCD

"Great intro overview, but <u>lots</u> of info – a bit overwhelming."

"Great Presentation! Actually learned some info I thought I already knew!"





Clearing the Air Technical Workshop

 EPA staff came to Louisville to provide training on topics including: Understanding Risk, EJ Screen, Toxics Release Inventory (TRI), & BenMap







Clearing the Air Workshop Series

- 2019 series to be announced!
 - Stakeholders help us find new topics of interest and decide which should be repeated: <u>ClearingTheAir@louisvilleky.gov</u>
- Additional groupspecific presentations scheduled
 - Additional presentations scheduled and seeking more





Resources

Air Pollution Control District

Louisvilleky.gov/APCD

STAR Program

Louisville RARE Project

APCD Clearing the Air Community

Workshop Series

Local Community Groups

West Jefferson County Community Task Force (WJCCTF)

Rubbertown Emergency ACTion (REACT)

Rubbertown Community Advisory

Council (RCAC)

Environmental Protection Agency

EJSCREEN

National Air Toxics Assessment

(NATA)

Environmental Justice

Toxic Release Inventory (TRI)



Thank You

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www.louisvilleky.gov/APCD

Keith H. Talley Sr., Director

