Environmental Justice in Louisville: A Work in Progress

Michelle King Director of Program Planning Louisville Metro Air Pollution Control District NACAA Fall Meeting October 16, 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.S. Environmental Protection Agency



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"



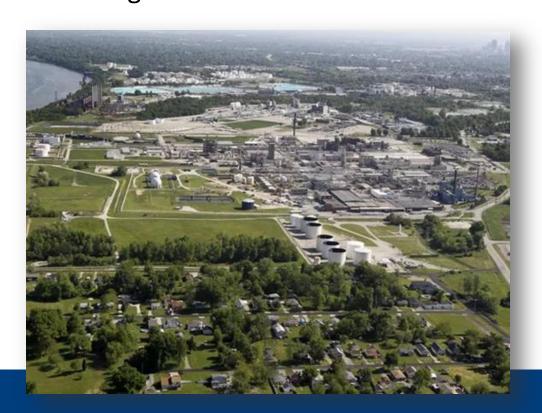




Rubbertown

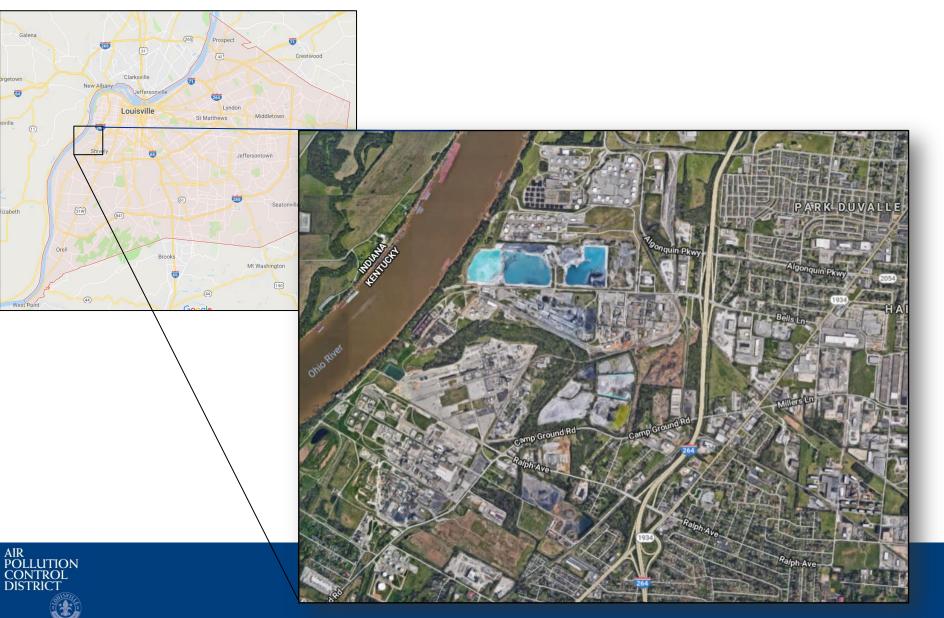
- 1996 Formation of the West Jefferson County Community Task Force (WJCCTF)
- Early 2000's Health assessments conducted in Rubbertown neighborhoods; assessments found a greater risk of cancer and other

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)



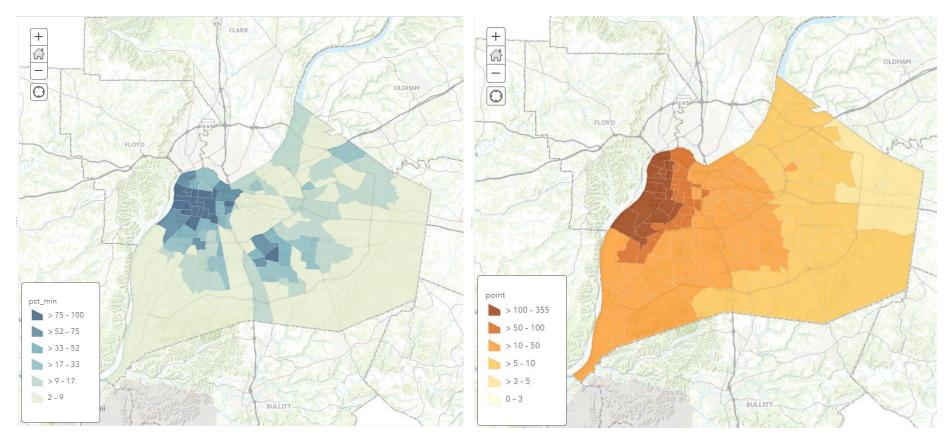


Rubbertown



EJ in Louisville

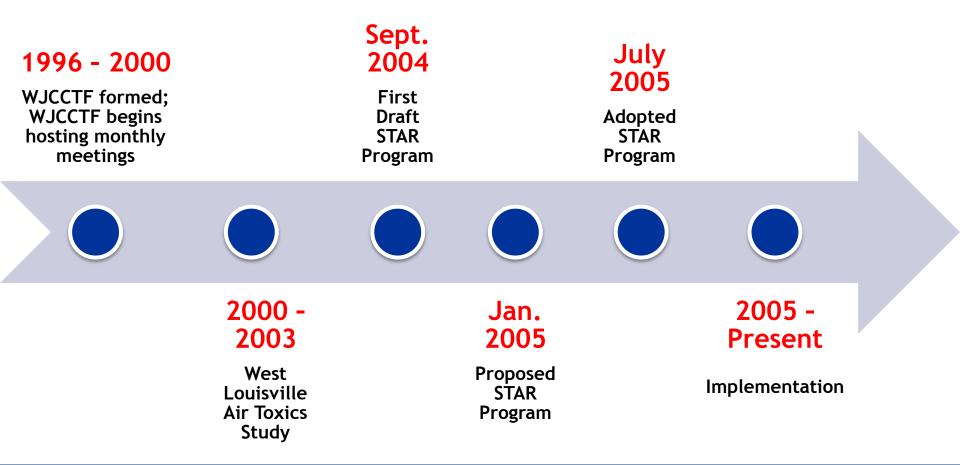
2000 Census Percent Minority v 2005 NATA Risk (in a million), Point Sources



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



Strategic Toxic Air Reduction Program Timeline





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



5 Compliance



https://louisvilleky.gov/government/air-pollution-controldistrict/strategic-toxic-air-reduction-program

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

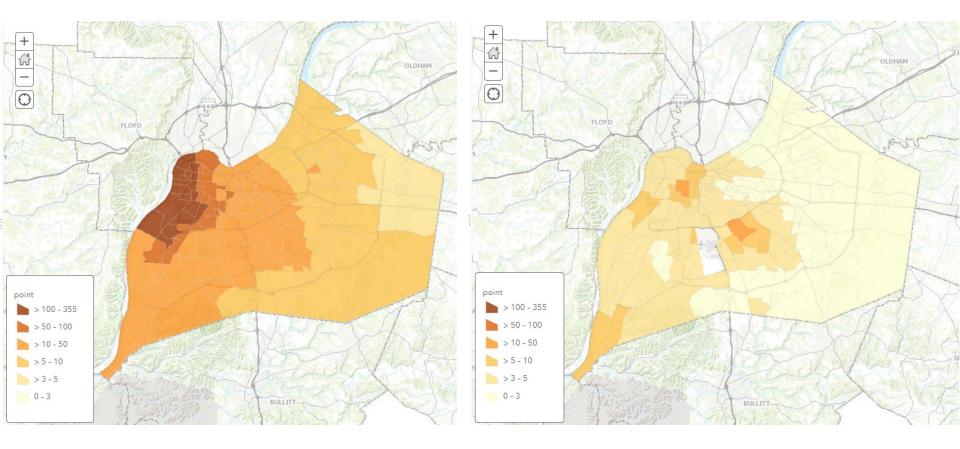
AFTER the adoption of STAR...

- Stakeholder Groups
 - STAR Implementation Advisory Group (2005 2007)
 - Reviewed "nuts and bolts" of the newly implemented 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



Progress to Date

2005 v 2014 National Air Toxics Assessment – Point Sources





Continued Efforts: Air Toxics Monitoring

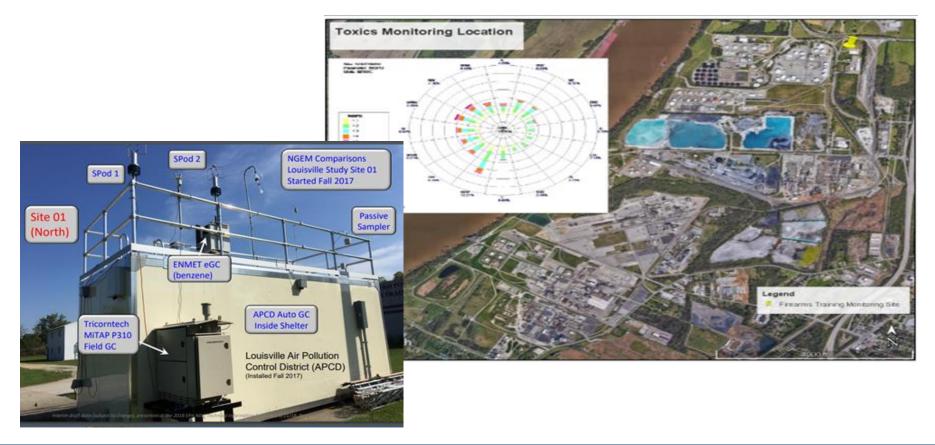
Expanded air monitoring network; added Auto GC in Rubbertown to monitor air toxics of concern and select volatile organic compounds with high photochemical reactivity

- 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

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



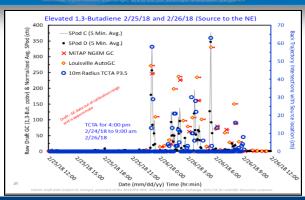
Office of Research and Development National Risk Management Research Laboratory, Air and Energy Management Division internm encyl dotte (subject to ofwarge), presented in the 2018 EPA h

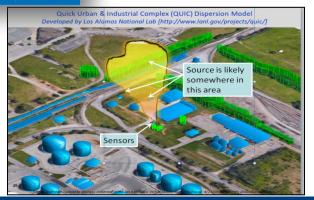
NRMRL Fugitive and Area Source Group Source and Fenceline Measurements Methods and Technology Development



AIR

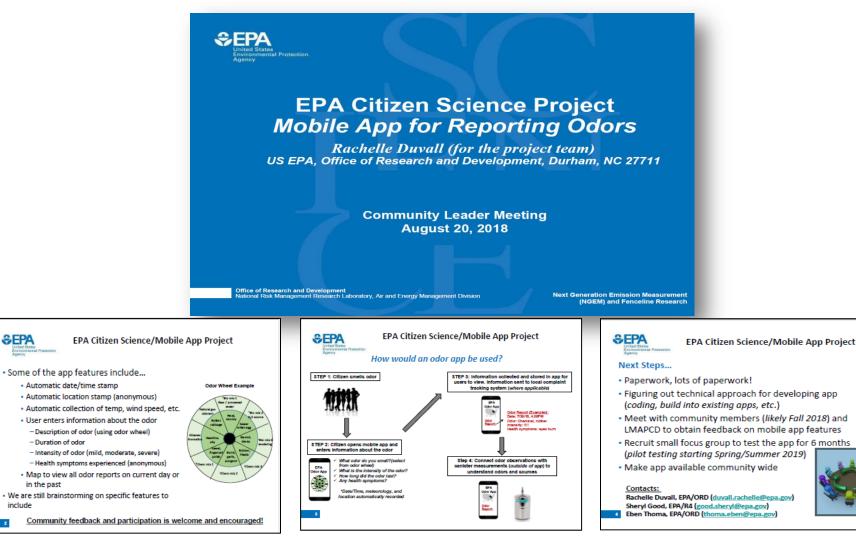
POLLUTION CONTROL DISTRICT





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

U.S. EPA RARE Project





include

€EPA

- Duration of odor

in the past

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.

DD

 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
- 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



- 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!



Metro311 Request Portal				
Home				Log in Sign Li
Improve your community. Report an i watch it get fixed.	ssue and	, ₿, Map	III List	Q, Keyword
Search		Map Setellite	Harrysille	
Animal or Pest Issue Request	>	form Pokin Boarden	Mariptus	<u> </u>
Building Permit Complaint		-	naright U	Gosten La Brange
Business Concern		Califie	0 6	- A
Drainage and Sewer		, company	- Canada	C Carrows
Environmental	>	Laterrite		Starting Statement
Feedback		Nature Addressed	Shreety (1)	O Seffertantar
Garbage, Recycling, Yard Waste & Junk	>	Dasheth		Seatorvile viceordia
Litter Complaint			-	Mi Washington
Noise Concern				
Park Issue	>	Sill Mald map		Lenors Farfaid
Pothole		E Patrous		Cont Deal
Property Maintenance Issue	>	Google	Co Listeror	(4) Bardelover
Smoke Detector Concern		Submitted	QReceived	Oin Progress Ocompleted







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

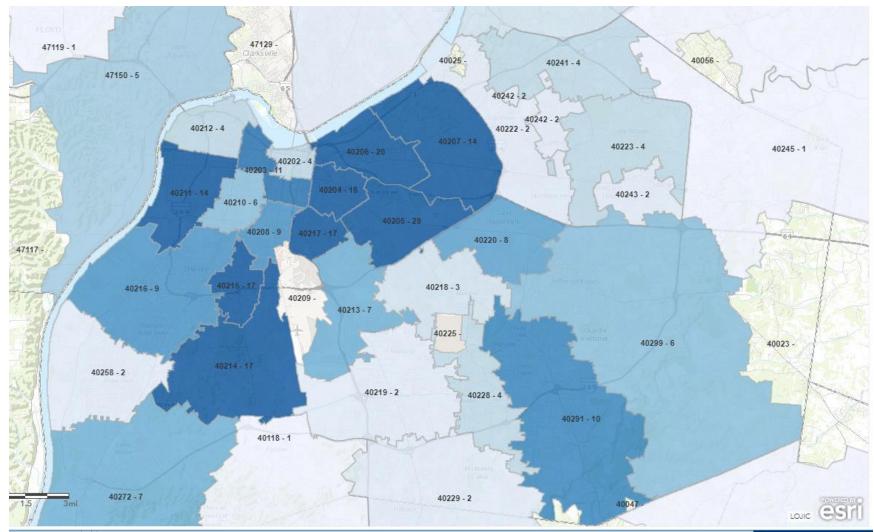








Community Survey Results



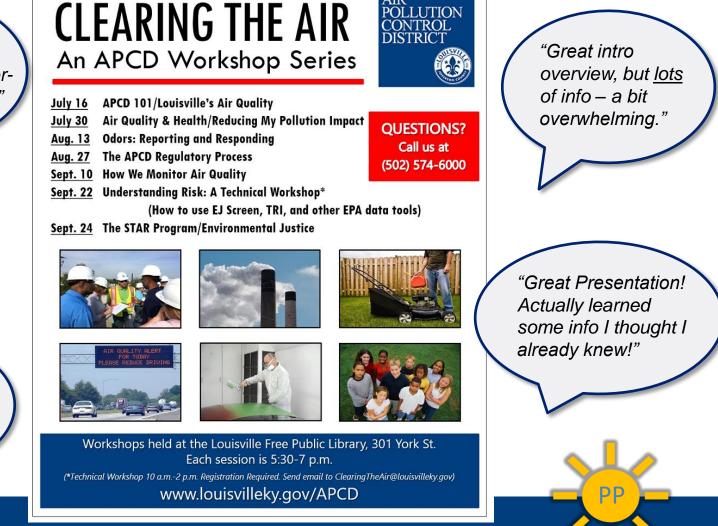


Clearing the Air Workshop Series

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

"Do some YouTube videos of modules."

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



AIR



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

Open Records Request

STAR Program

APCD Clearing the Air Community Workshop Series

Local Community Groups

<u>West Jefferson County Community Task</u> <u>Force (WJCCTF)</u> <u>Rubbertown Emergency ACTion (REACT)</u> <u>Rubbertown Community Advisory</u>

Council (RCAC)

Environmental Protection Agency EJSCREEN

National Air Toxics Assessment

(NATA)

Environmental Justice

Toxic Release Inventory (TRI)



Thank You

Louisville Metro Air Pollution Control District

701 W. Ormsby Ave. Ste. 303 Louisville, Ky. 40203 (502) 574-6000 www.louisvilleky.gov/APCD

Keith H. Talley Sr., Director

