



# Community Update

May 2019

## Marathon refinery continues giving in Detroit

Every other month, the Detroit refinery holds a Community Advisory Panel (CAP) meeting with members of the community to provide updates and get their ideas for how we can continue being good neighbors in Southwest Detroit.

“We have been an integral part of Southwest Detroit for 60 years, and we’re proud to do our part to continue making this area a great place to live, work and play,” said Dave Roland, refinery general manager. “At the most recent CAP meeting, we shared a variety of activities we are involved in. This included sponsoring events that help the communities, visiting schools, and making donations to charities that make a difference in people’s lives.”

### Donations: \$50,000

The Marathon refinery donated about \$50,000 to a variety of organizations in the community. Here is a short description of each one:

- **Crime Stoppers of Michigan:** a nonprofit that empowers people to anonymously report crime and increase safety in neighborhoods, schools, churches, and businesses.
- **Coalition on Temporary Shelter (COTS) Detroit:** Serving Detroit’s most vulnerable with hope, help and housing.
- **Focus: Hope:** Pledging “intelligent and practical action to overcome racism, poverty and injustice.”
- **Special Olympics:** Changing the lives of people with intellectual disabilities.
- **Matrix Human Services:** 100+ year-old Detroit area nonprofit fighting poverty and helping individuals and families toward self-sufficiency.
- **First Step:** A Wayne County nonprofit devoted to eliminating domestic and sexual violence.

### Sponsorships: \$9,000

**Women in Blue:** This event is hosted by the Detroit Public Safety Foundation, which works to help the Detroit Police and Fire Departments use innovative programs that make Detroit a safer place to live and work. The Women in Blue event recognized Women of the Year, including the police and fire departments’ first African-American female fire engine driver and the first African-American female police underwater recovery team member.

### Mercy Education Project:

This organization provides educational opportunities, life skills development and cultural enrichment for women and girls who have limited access to resources, enabling them to improve the quality of their lives. Our sponsorship helped support tutoring programs, college and career readiness programs, and GED classes.



*Marathon Petroleum Refinery General Manager Dave Roland addresses the Boy Scouts IMPACT Breakfast, sponsored by Marathon Petroleum.*

**Girl Scouts of Southeastern Michigan Cookie Gala:** This fundraising event devotes the money raised to helping foster the next generation of girls to be “Go-getters, Innovators, Risk-Takers and Leaders.”

**Boy Scouts IMPACT Breakfast:** At this event, local education, business, labor and government leaders discussed the future of Detroit’s workforce and served as

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# The Detroit Refinery Air Monitoring Team's professionals use state-of-the-art technology

At the Detroit Refinery, the health and safety of our personnel and our neighbors are our top priority. One of the ways we help to safeguard people is through the technology and the professionals of our Air Monitoring Team.

“Our Air Monitoring Team is a great resource, because it gives us the ability to accurately investigate odor complaints and to respond quickly when we have unusual operating conditions,” said Kevin Lepak, advanced Health, Environment and Safety professional at the refinery. “Everyone on the team volunteers to participate, so we do this in addition to our regular jobs. We’re really passionate about being part of this group that is so important to our employees and neighbors.”

The refinery has a network of 150 fixed emissions monitors that are always on and always being watched. We also have over 50 portable monitors of different types ready to deploy if there’s an emergency or unusual operating conditions.

The personnel at the refinery who are part of the Air Monitoring Team are ready to go any time — 24 hours a day, 365 days a year.

In addition to monitoring for a wide variety of potential emissions, we are also able to monitor weather conditions. When we combine weather conditions with our air monitoring, we are able to put together a clear picture of how the air might be affected.

**So how does it all work?** We use a specialized software to put together all of the Air Monitoring Team’s capabili-



*Top: Marathon Petroleum’s Air Monitoring Unit vehicle, which is deployed to surrounding areas in the event of an operational upset at the refinery.*

*Bottom: The Air Monitoring Unit control room at the refinery, where our professionals gather data from weather monitors and air monitors in the refinery and in neighborhoods. The data is analyzed by software that can show dispersion and concentrations of emissions, if needed.*

ties. Our weather monitoring tells us where the winds are blowing and our fixed monitors tell us what emissions are being generated. So when we deploy our Air Monitoring Team, they know where to go, and when we add the data they gather out in the community, the software incorporates it into the results and we get a more accurate idea about whether emissions are affecting air quality in any neighborhoods.

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a recruiting venue for new partners for the Boy Scouts “Workforce Exploring” programs.

## In schools

On Earth Day, 23 Marathon employees volunteered to visit three area schools to teach students about recycling, resource conservation, and planting flow-

ers and trees. The volunteers interacted with more than 1,500 students at these schools:

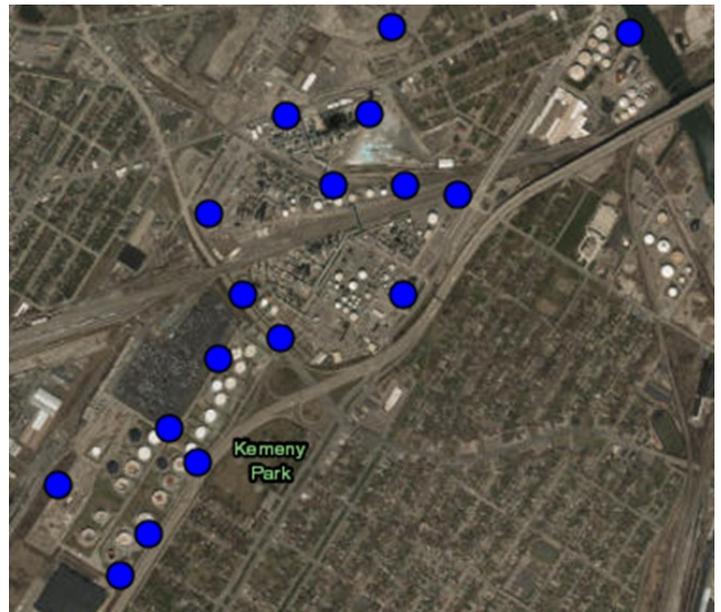
- New Paradigm College Prep in Boynton
- Allendale Elementary in Melvindale
- Ann Visger Elementary in River Rouge

# Detroit Refinery shares results of fenceline monitoring program

The Detroit refinery operates a fenceline monitoring program for benzene that complies with the U.S. Environmental Protection Agency (EPA) fenceline monitoring rule. This rule requires all major U.S. refineries to monitor benzene concentrations at, or near, refinery fencelines.

“One of our ongoing commitments has been transparency about our operations, and this fenceline monitoring rule gives us a great opportunity to share more information with our neighbors about our environmental performance,” said Refinery General Manager Dave Roland.

In January 2018, 17 fenceline monitors were placed around the Detroit refinery property. The monitors are placed at regular intervals around the refinery in alignment with EPA protocol.



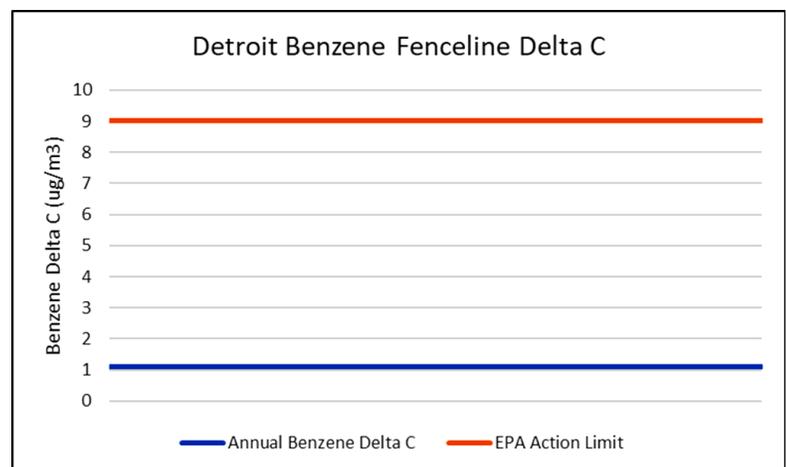
## How Does It Work?

Fenceline monitors are about the size and shape of an upside-down coffee mug, and are placed around the refinery. Each monitor contains a carbon-filled tube that is open at both ends and suspended under the outer covering. This design allows ambient air to naturally diffuse through the carbon tubes. Every two weeks, the carbon tubes are retrieved and replaced with fresh tubes. The collected tubes are sent to an off-site laboratory for analysis using a method developed by the EPA.

## And the Results?

The results from each monitored location are then calculated to track the difference between the highest monitored concentration of benzene and the lowest monitored concentration for each monitoring event. The differences are recorded in a data set called “Delta C.” If the annual rolling average of “Delta C” exceeds the threshold established by the EPA (9 micrograms per cubic meter), the refinery is required to perform a root cause analysis, and if the cause is determined to be from its operations, take corrective action.

“Fenceline monitors capture ambient air concentrations that can be affected by sources other than the



**Top:** The locations of the Detroit refinery’s 17 benzene fenceline monitors, which have been in place since January 2018. The locations are chosen based on U.S. Environmental Protection Agency methodology. **Above:** The results of the benzene fenceline monitoring show an annual average “Delta C” compared to the EPA action limit.

refinery,” said Roland. “That’s why we would perform a root cause analysis if the annual average Delta C is exceeded, and if we find that it was from our operations, we would take action.”

Roland noted that since January 2018, results show the refinery is well below the EPA’s action level. “Nevertheless, we remain committed to continually improving our emissions reductions as we manufacture the fuels and other products that millions of people rely on every day,” he said.



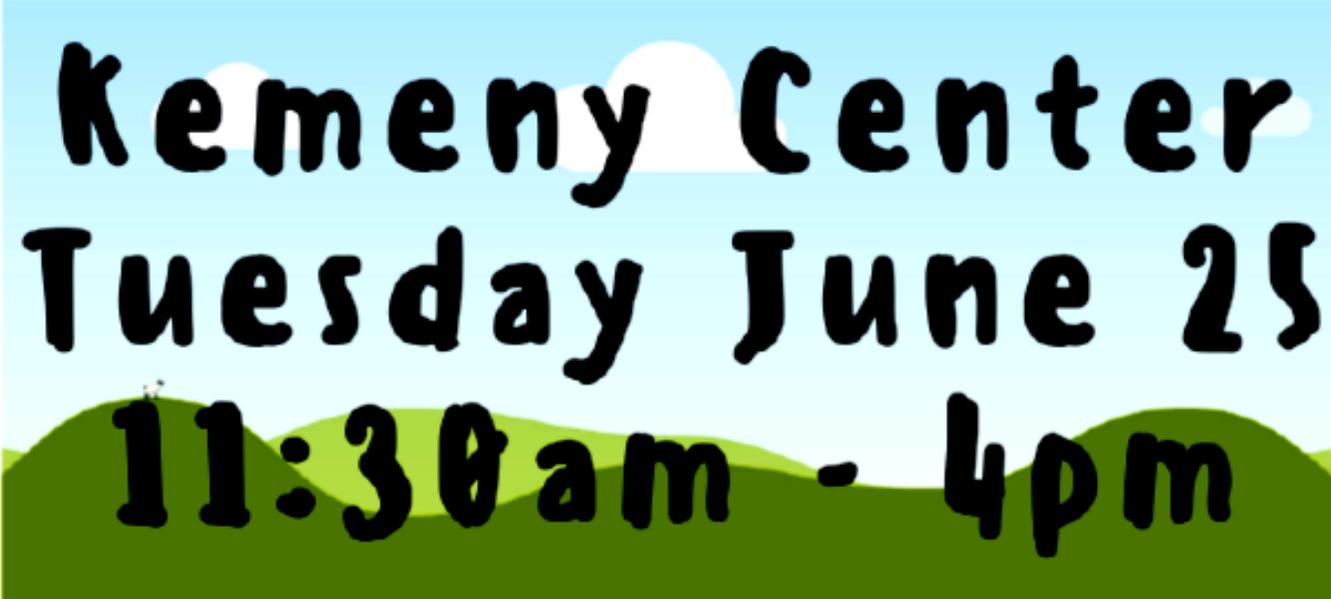
**End of School  
Summer  
Celebration**

Parents/guardians  
also welcome

Sponsored by



\*Free Event\*



**Kemeny Center  
Tuesday June 25  
11:30am - 4pm**

**Food**

11:30am - 1:30pm

**Ice Cream**

All Day

Bring your  
bike for  
repairs

Inflatables

Music

Nail Painting

Basketball

Haircuts

Police &

Games

Fire Trucks



\*\*While Supplies Last