

## AGENDA

**Heavy-Duty Diesel Vehicle Inspection and Maintenance Working Group  
Conference Call  
Thursday, January 17, 2019  
10:30 am (US Central Time Zone)**

### Call Information

**Call Number: 1888-909-7654**

**Participant PIN: 713209#**

**Join WebEx:**

<https://nctcog.webex.com/webappng/sites/nctcog/meeting/info/114840214756696234?MTID=m8a81329b83d67d3c0eec208f1f0718db>

1. Welcome and Introductions ..... Chris Klaus, NCTCOG
2. DeqToo Program Business Processes.....Gary Beyer, Oregon Department of Environmental Quality
3. Heavy-Duty Vehicle Emissions Component Tampering
  - a. New Jersey Initiative - Melissa Evanego, New Jersey Department of Environmental Protection
4. NCTCOG Emissions Measurement Equipment Survey Responses (\*partners below completed surveys) ..... Jason Brown, NCTCOG
5. Partner Updates:
  - a. Arizona Department of Environmental Quality
  - b. California Air Resources Board
  - c. Clark County, Nevada
  - d. Colorado Department of Public Health & Environment\*
  - e. Connecticut Department of Motor Vehicles
  - f. DG Technologies
  - g. Environmental Protection Agency
  - h. Hong Kong Environmental Protection Department
  - i. Houston Galveston Area Council
  - j. Massachusetts Department of Environmental Protection
  - k. Metropolitan Transportation Commission – San Francisco Bay Area
  - l. New Jersey Motor Vehicle Commission
  - m. Oak Ridge National Laboratory
  - n. Ontario Ministry of the Environment and Climate Change
  - o. Oregon Department of Environmental Quality\*
  - p. Rhode Island Department of Environmental Management
  - q. Southwest Research Institute
  - r. Texas A&M Transportation Institute
  - s. Texas Commission on Environmental Quality
  - t. Texas Department of Transportation
  - u. Transport Scotland
  - v. United Kingdom Department of Transport
  - w. University of California, Riverside – Center for Environmental Research & Technology
  - x. University of Hong Kong
  - y. University of Leeds\*
  - z. University of Tennessee
  - aa. Utah
  - bb. Vermont Air Pollution Control Program
  - cc. Washington State Department of Ecology\*

6. 2019 Meetings - April 18; August 15; November 21

7. Adjourn

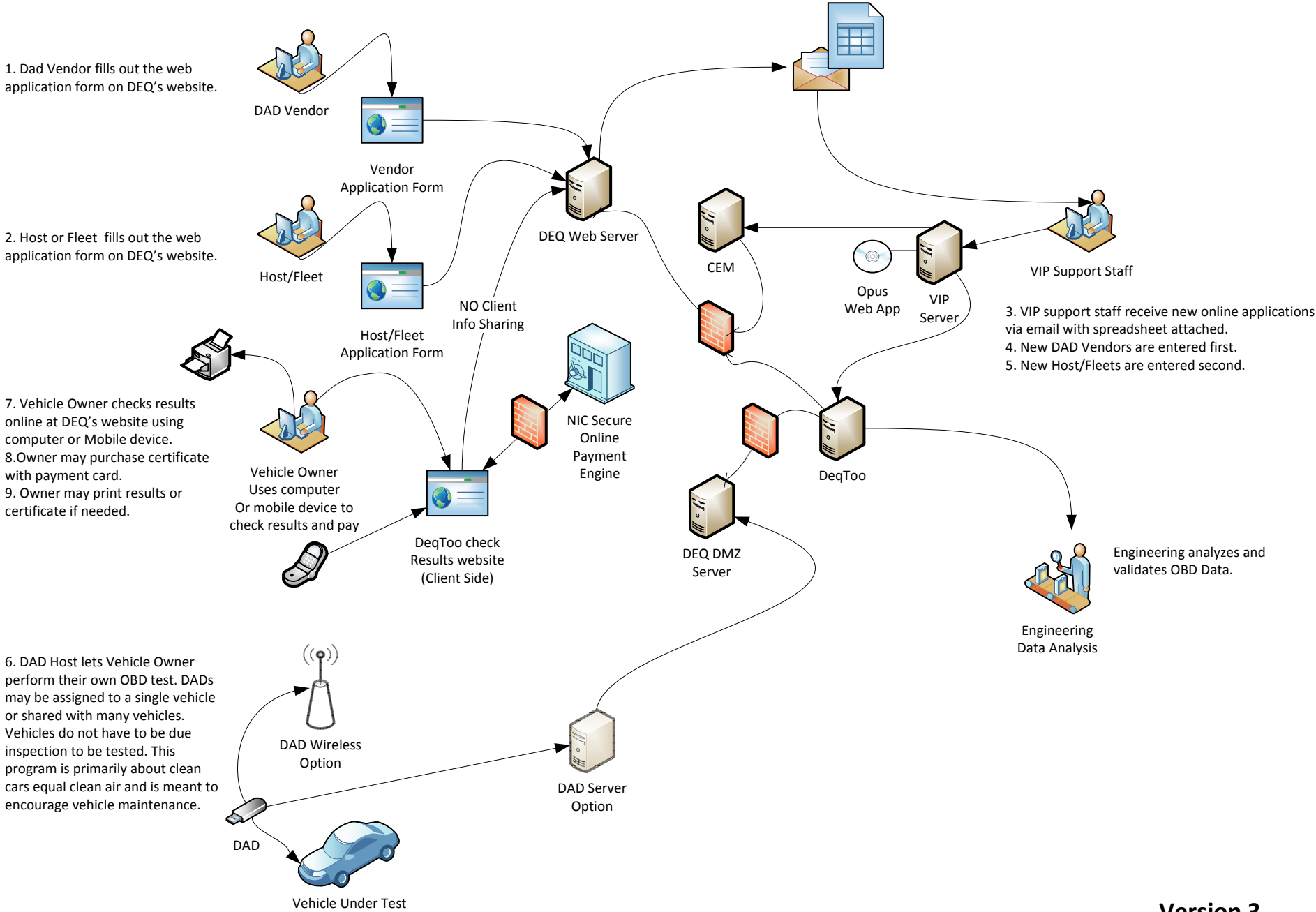
More information found at [www.nctcog.org/HDDVIMWorkingGroup](http://www.nctcog.org/HDDVIMWorkingGroup).

Upcoming Conferences and Workshops:

- a. [CARTEEH Transportation, Air Quality and Health Symposium](#); February 18-20, 2019 in Austin, TX
- b. [29<sup>th</sup> CRC Real World Emissions Workshop](#); March 10-13, 2019 in Long Beach, CA
- c. [IM Solutions 2019](#); May 19-23, 2019 in Princeton, NJ

# DeqToo Business Processes

## High-level View



1. Dad Vendor fills out the web application form on DEQ's website.

2. Host or Fleet fills out the web application form on DEQ's website.

7. Vehicle Owner checks results online at DEQ's website using computer or Mobile device.  
 8. Owner may purchase certificate with payment card.  
 9. Owner may print results or certificate if needed.

6. DAD Host lets Vehicle Owner perform their own OBD test. DADs may be assigned to a single vehicle or shared with many vehicles. Vehicles do not have to be due inspection to be tested. This program is primarily about clean cars equal clean air and is meant to encourage vehicle maintenance.

3. VIP support staff receive new online applications via email with spreadsheet attached.  
 4. New DAD Vendors are entered first.  
 5. New Host/Fleets are entered second.

Engineering analyzes and validates OBD Data.

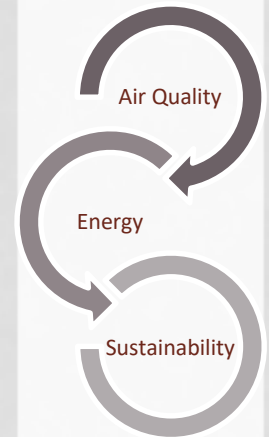


# DIVISION OF AIR QUALITY

AIR QUALITY, ENERGY, AND SUSTAINABILITY

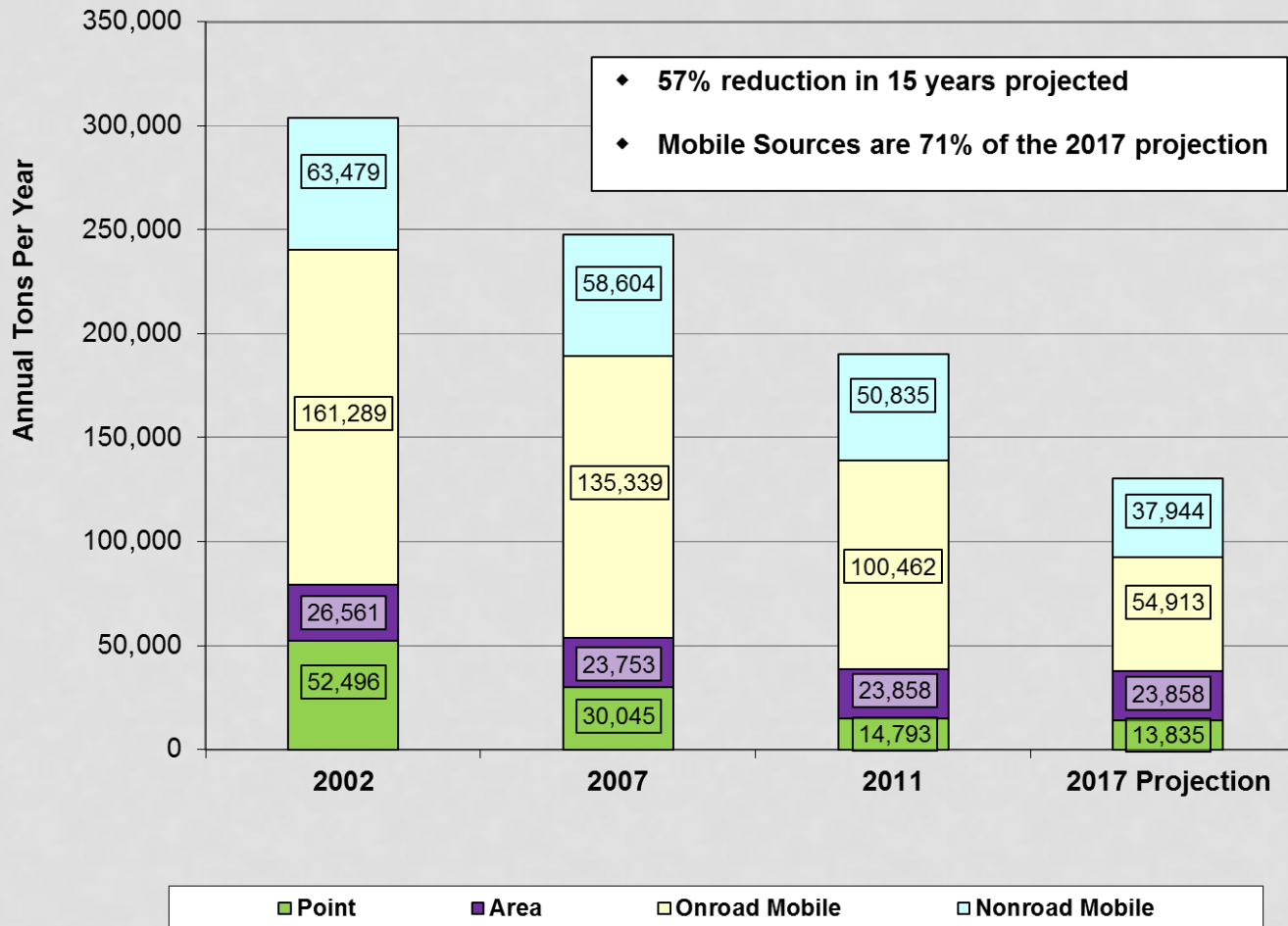
## NJ TAMPERING INITIATIVE

JANUARY 17, 2019



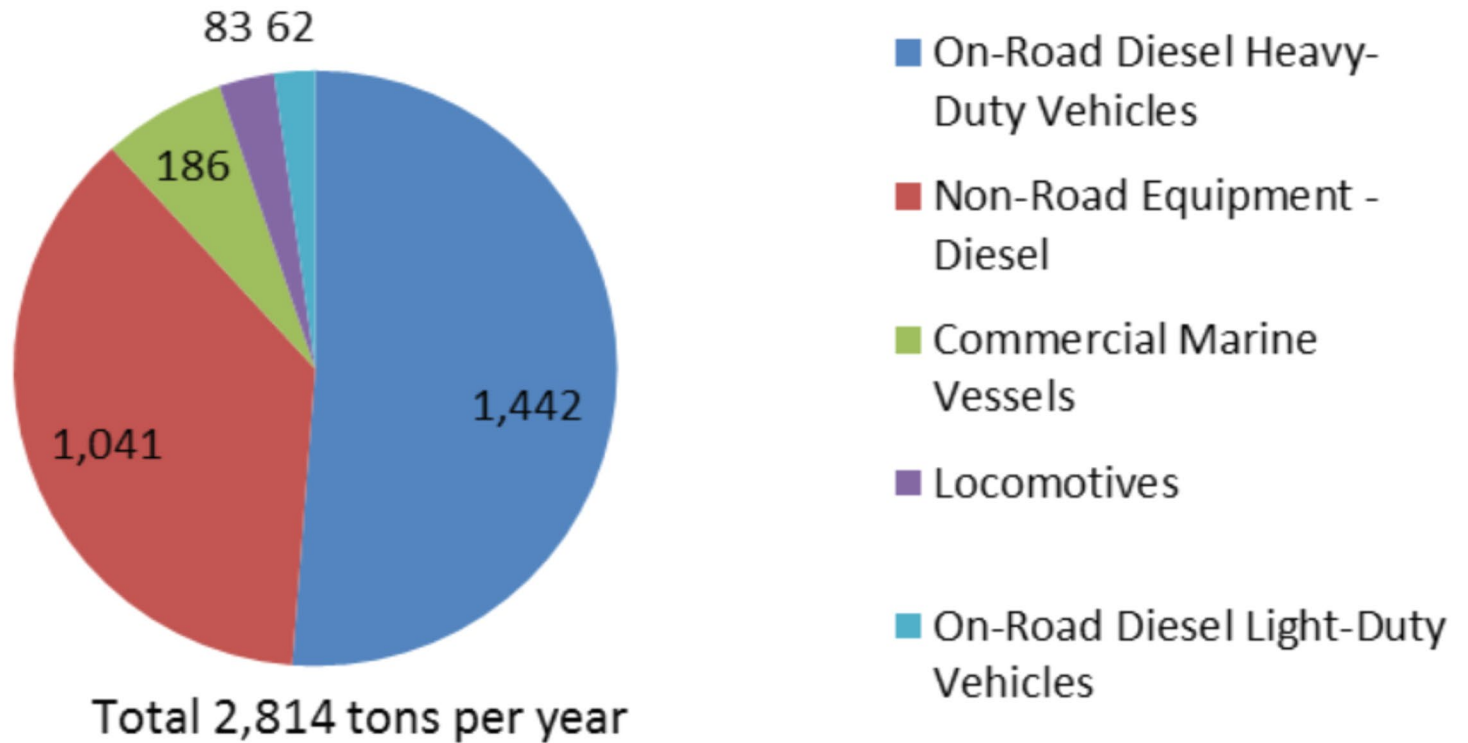
# Why pay attention to tampering?

New Jersey Nitrogen Oxides Emission Trend  
2002-2017



# PM<sub>2.5</sub> emissions

## Draft 2017 Mobile PM<sub>2.5</sub> Emissions in NJ -Diesel Only (tons per year)



# CRAIGSLIST SEARCH

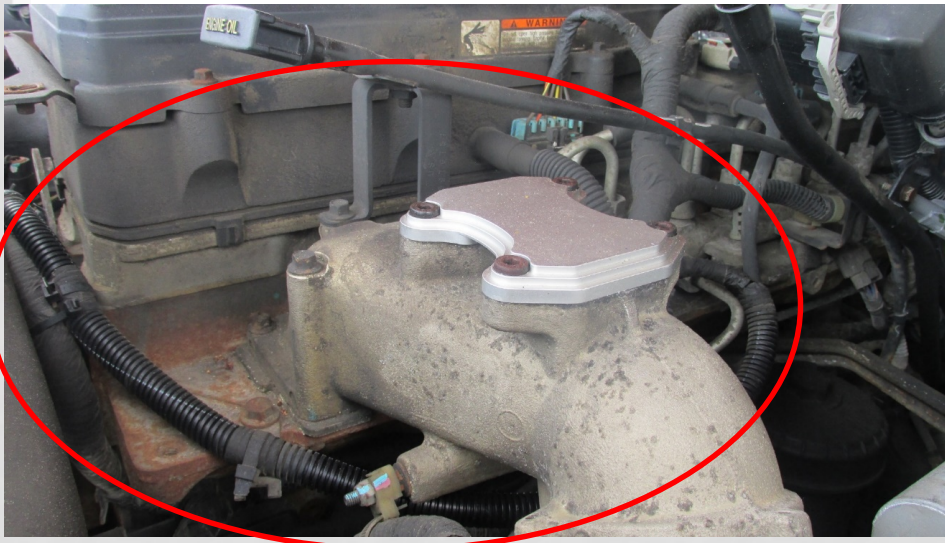


# INVESTIGATIONS

- Focus on medium duty pickup trucks
- 3 investigations at used car dealerships = 30%
  - Phoenix Truxx – South Amboy
    - 35 trucks inspected and 11 tampered
    - Tampered trucks MY 2006-2016
  - TSJ Auto Brokers – Lakewood
    - 15 trucks inspected and 4 tampered
    - Tampered trucks MY 2008-2016
  - Wholesale Outlet – Waterford
    - 16 trucks inspected and 5 tampered
    - Tampered trucks MY 2007-2013
- Enforcement action
  - 1<sup>st</sup> offense
    - \$2,000 penalty per vehicle and vehicle must be made whole



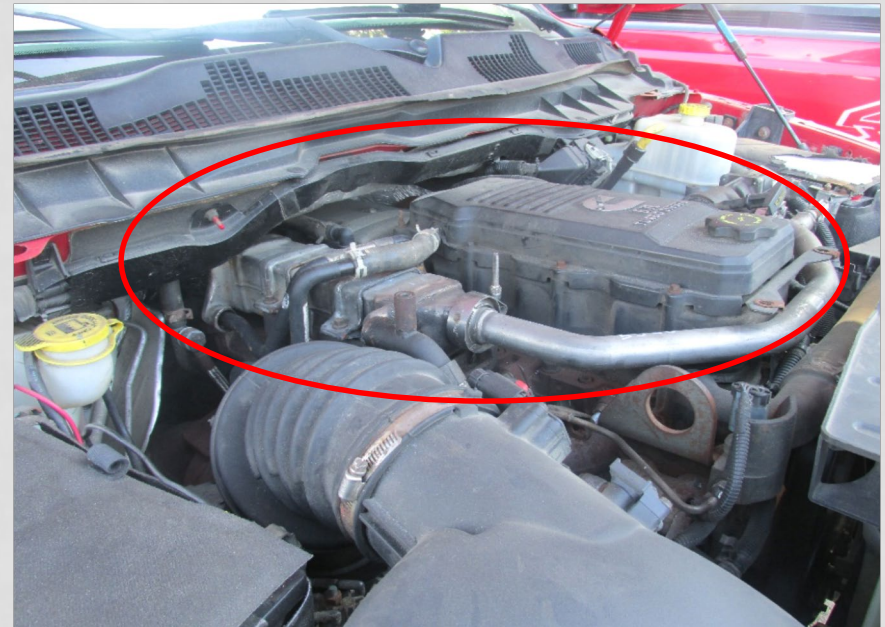
# Exhaust gas recirculation – Nox



**Missing**



**Repaired**





**Diesel Particulate Filter**

Straight pipe  
indicating DPF  
has been  
removed

Straight pipe has  
been removed  
and DPF has  
been installed



# N.J.A.C. 7:27-14.3(e)

(e) No person shall cause, suffer, allow, or permit any of the following, unless it is performed in accordance with EPA Memorandum 1A or it is exempt from prohibition by CARB Executive Order (information on devices or modifications approved by CARB Executive Order may be obtained from the California Air Resources Board, 1001 "I" Street, PO Box 2815, Sacramento, CA 95812 or at [www.arb.ca.gov](http://www.arb.ca.gov)):

- 1. The disconnection, detachment, deactivation, or any other alteration or modification from the design of the original vehicle manufacturer or an element of design installed on any motor vehicle with a certified configuration or motor vehicle engine with a certified configuration, except temporarily for the purpose of diagnosis, maintenance, repair, or replacement;
- 2. The sale, lease, or offer for sale or lease, of any motor vehicle with a certified configuration or motor vehicle engine with a certified configuration in which any element of design installed on such vehicle has been disconnected, detached, deactivated, or in any other way altered or modified from the design of the original vehicle manufacturer; or
- 3. The sale, or offer for sale, of any device or component as an element of design intended for use with, or as part of, any motor vehicle with a certified configuration or motor vehicle engine with a certified configuration that is not designed to duplicate the function and performance of any element of design installed by the original vehicle manufacturer.

| Penalty Category   | Class                                   | First Offense | Maximum Offense |
|--|---|---------------|-----------------|
| Idling   | All vehicles                            | \$0           | \$1500          |
| Tampering of vehicles  | Owner of 4 or less vehicles             | \$400         | \$6000          |
|  | Owner of 5 or more vehicles             | \$1000        | \$15,000        |
| Sale, lease, or offer for sale or lease tampered vehicle                             | Owner of 4 or less                      | \$1000        | \$15,000        |
|  | Owner of 5 or more vehicles             | \$2000        | \$30,000        |
| Sale, or offer for sale any device or component                                      | All vehicles                            | \$2000        | \$30,000        |
| Does not have a properly functioning and properly maintained emission ctrl apparatus | Offer for Sale/Sale of Device Component | \$2000        | \$30,000        |
| Installing disconnected, detached, deactivate or modified emission control apparatus | Passenger vehicles                      | \$500         | \$7500          |
|  | Commercial vehicle                      | \$1000        | \$15,000        |

# QUESTIONS

Melissa Evanego, Bureau Chief  
Bureau of Mobile Sources

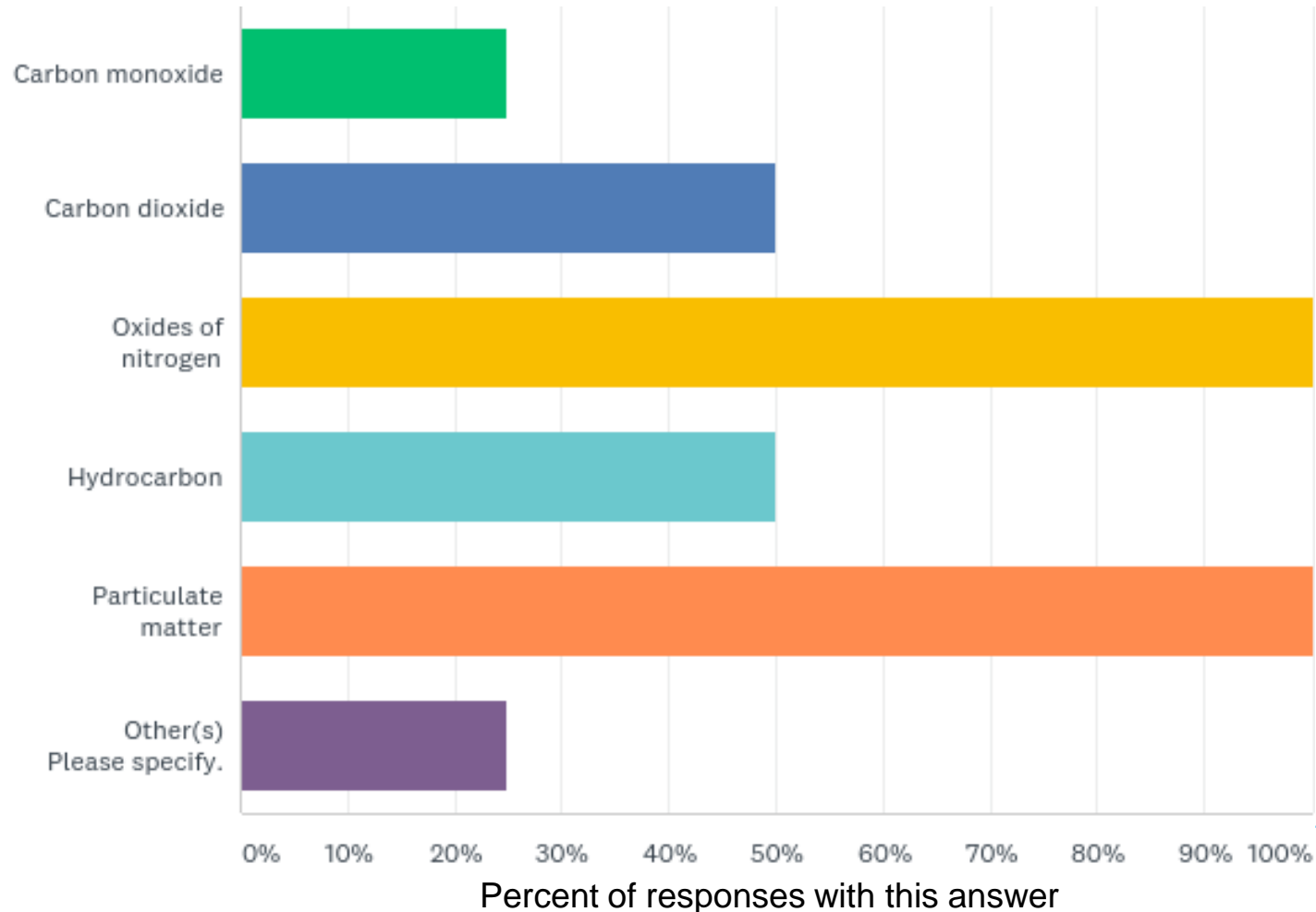
[melissa.evanego@dep.nj.gov](mailto:melissa.evanego@dep.nj.gov)

609-292-1637

# **NCTCOG Emissions Measurement Equipment Survey Responses**

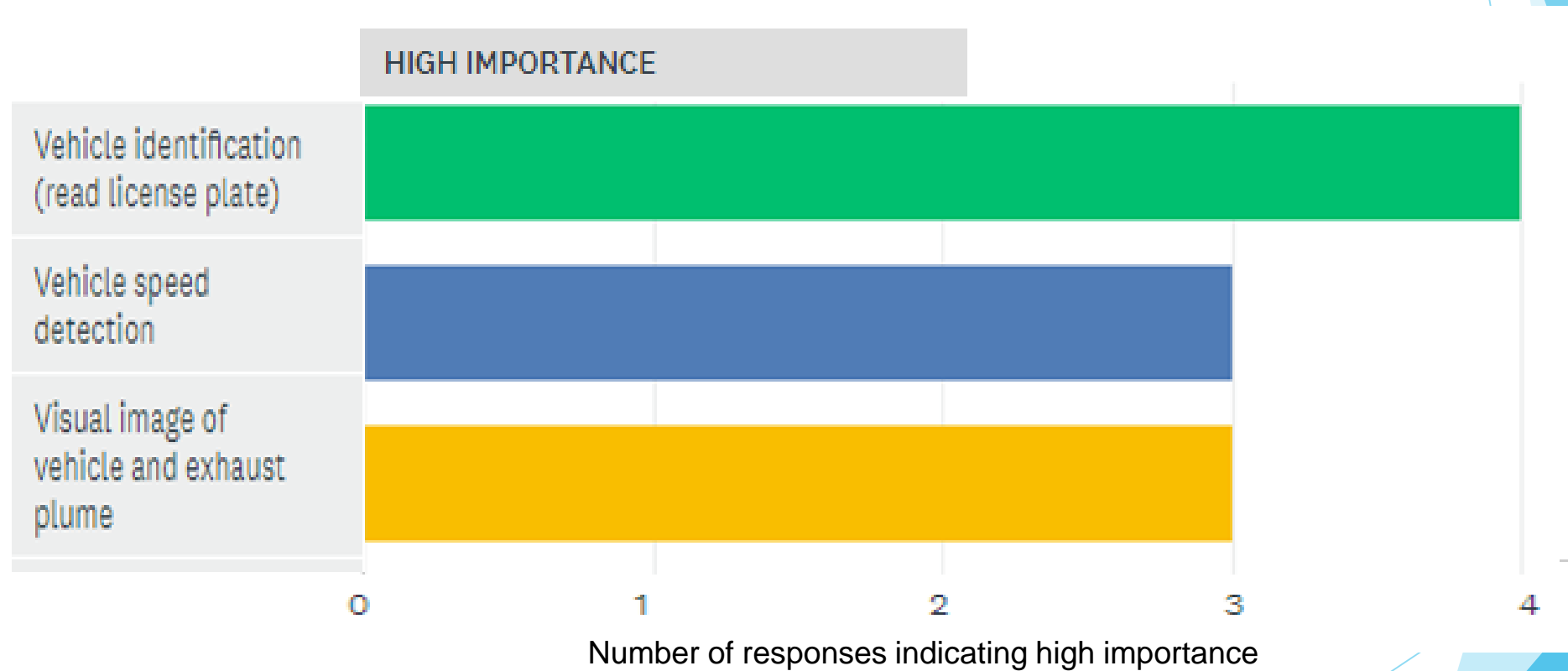
**January 17, 2019**

# What chemicals and particles should the device be able to detect?



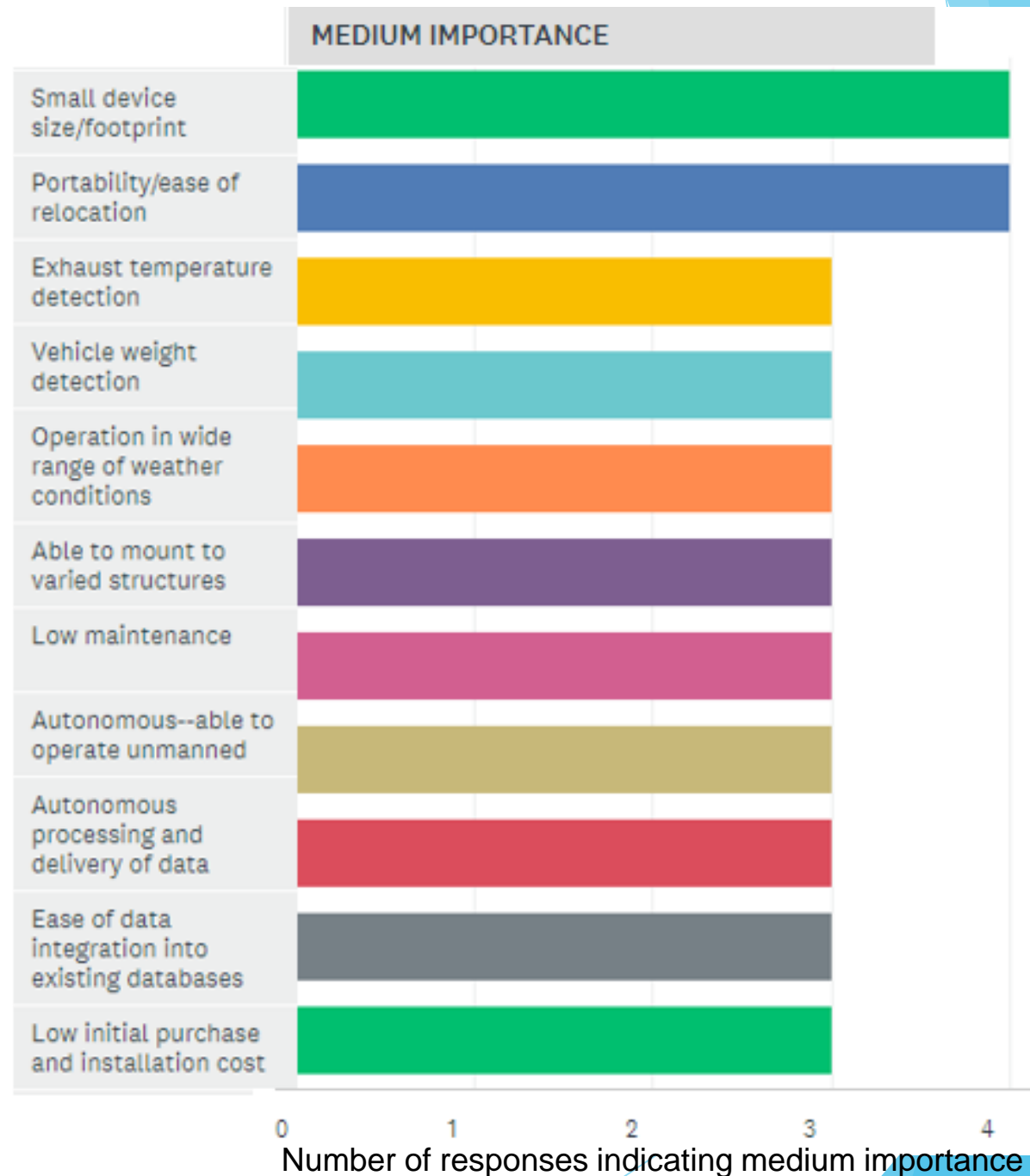
Others - Discrete oxides of nitrogen (NO, NO<sub>2</sub>), Ammonia, Carbonyls

# Please rank the importance of the following emissions detection equipment attributes.

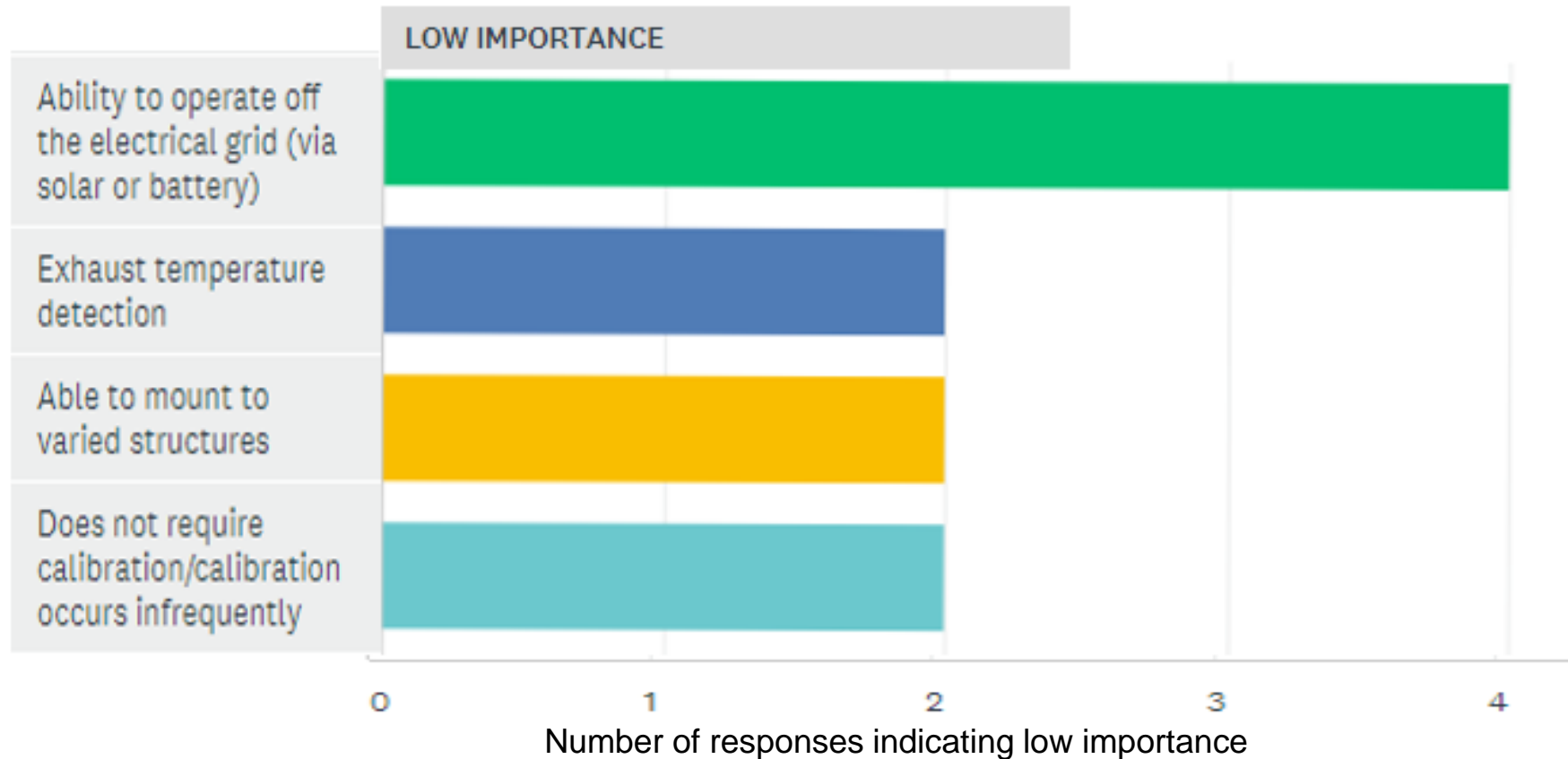




**Please rank the importance of the following emissions detection equipment attributes.**



# Please rank the importance of the following emissions detection equipment attributes.



# Heavy-Duty Diesel Emissions Measurement Equipment Survey Link

▶ <https://www.surveymonkey.com/r/ZL82LX3>