

North Central Indiana Air Quality and Indiana Volkswagen Mitigation Trust Program Update



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April 28, 2021

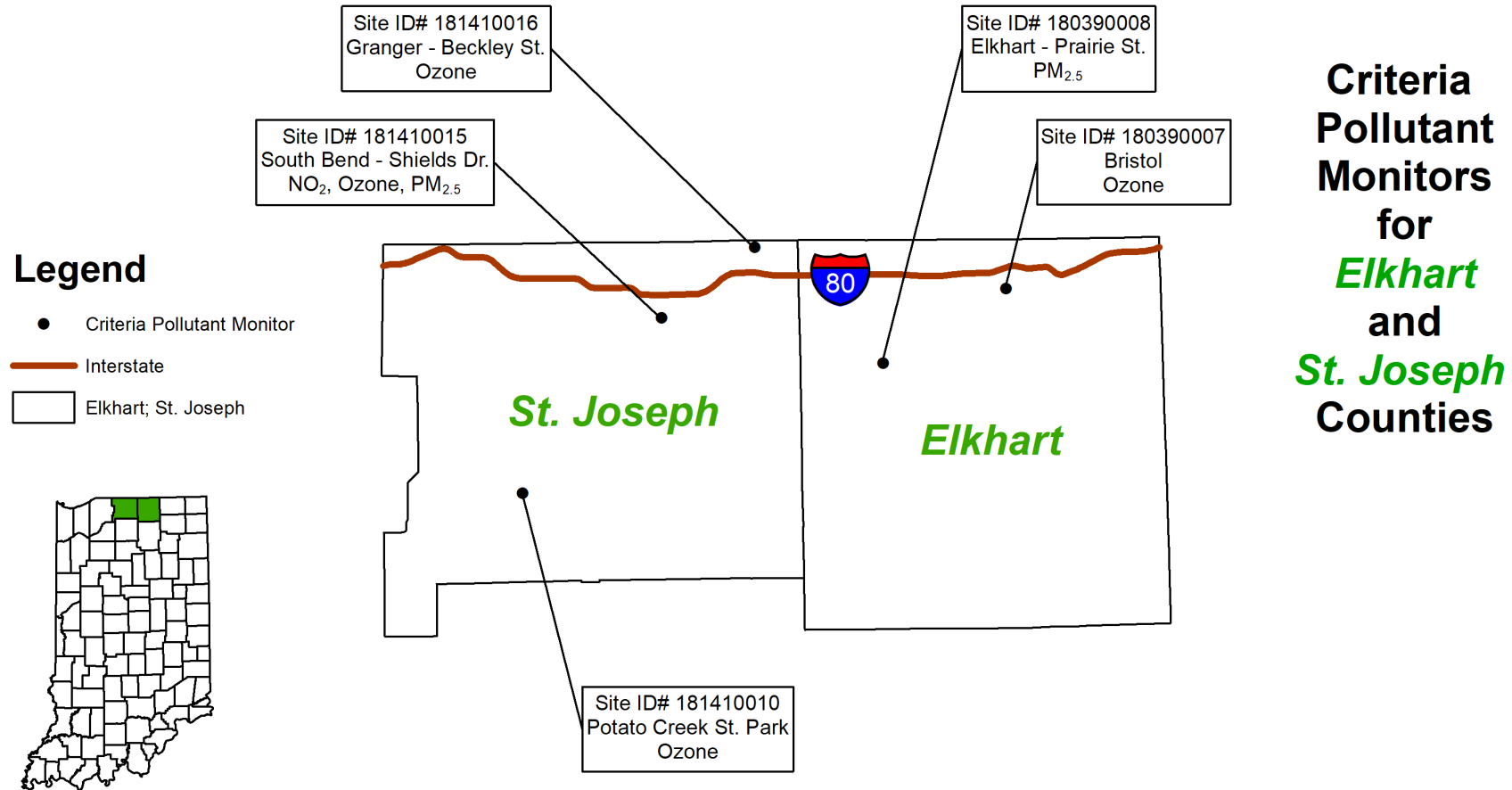
Presentation Summary

- Geographic area
- Long-term air quality trends
- Long-term emission trends
- Current schedule for ongoing National Ambient Air Quality Standards (NAAQS) review
- 8-hour ozone area designations
- Indiana Volkswagen Mitigation Trust Program

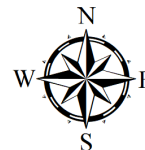
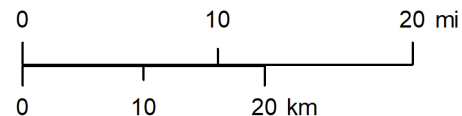


Geographic Area

Geographic Area



Date: 4/15/2021
 Mapped By: C. Mitchell, OAQ
 Sources: Office of Air Quality
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83



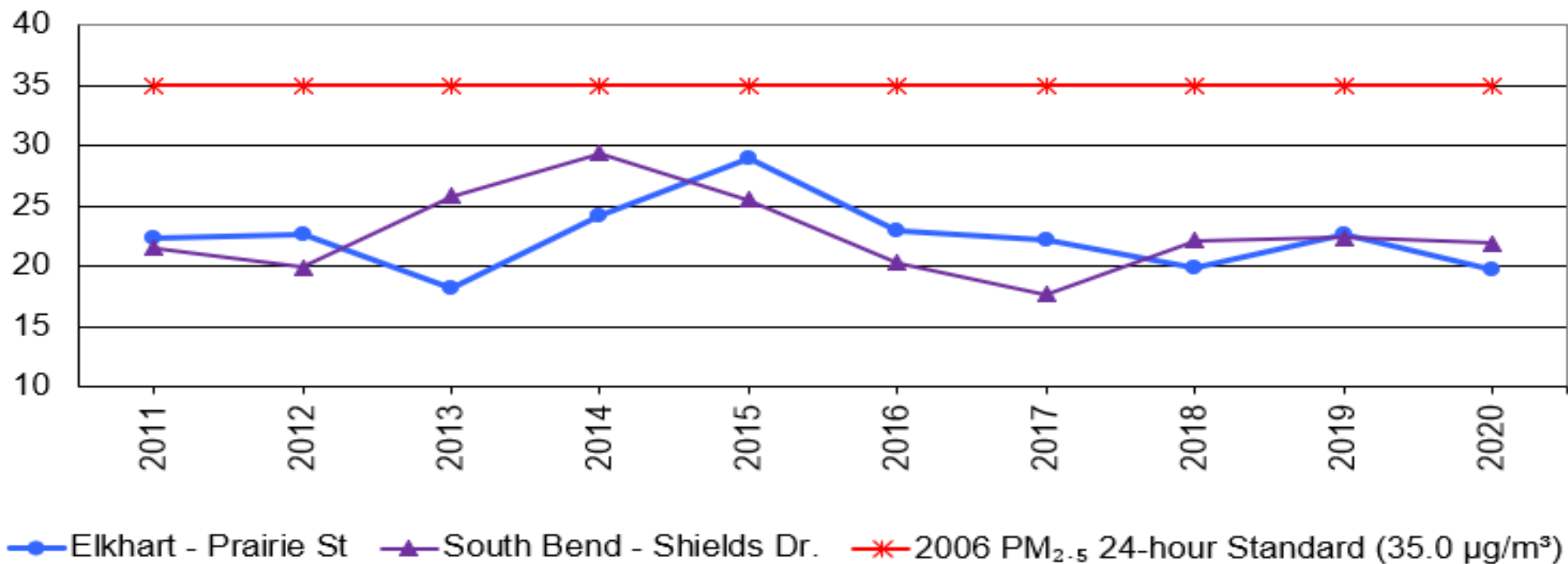


Long-Term Air Quality Trends

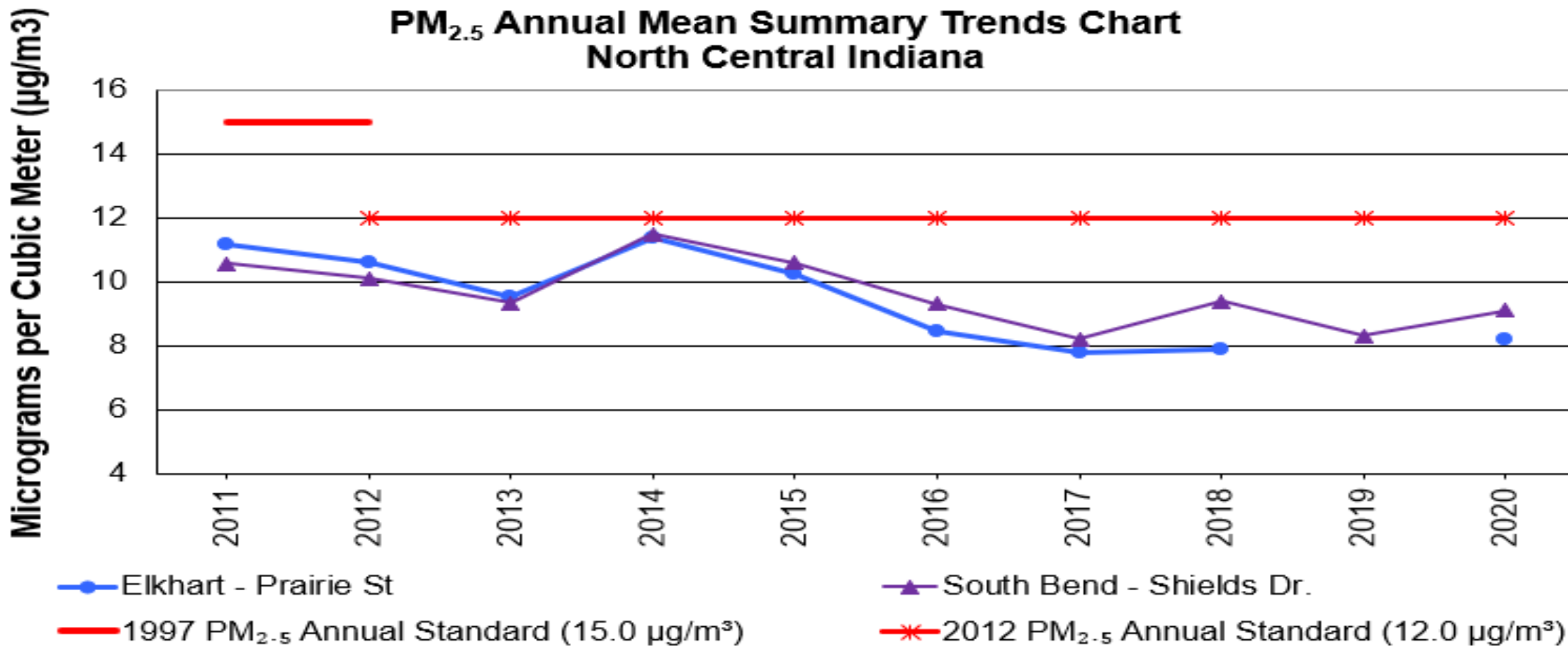
PM_{2.5}

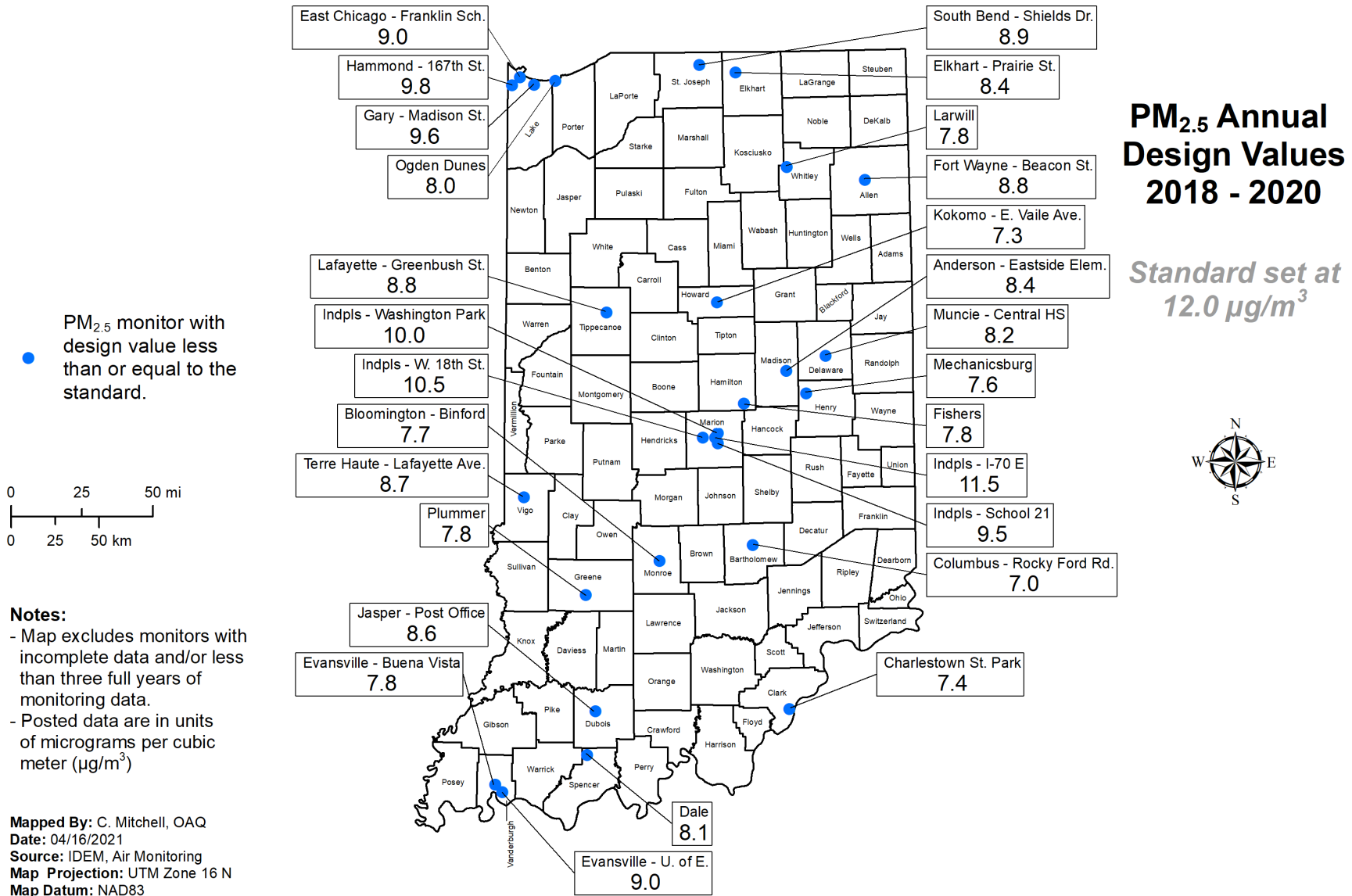
Micrograms per Cubic Meter ($\mu\text{g}/\text{m}^3$)

PM_{2.5} 98th Percentile of 24-Hour Concentration Values Trend Chart North Central Indiana



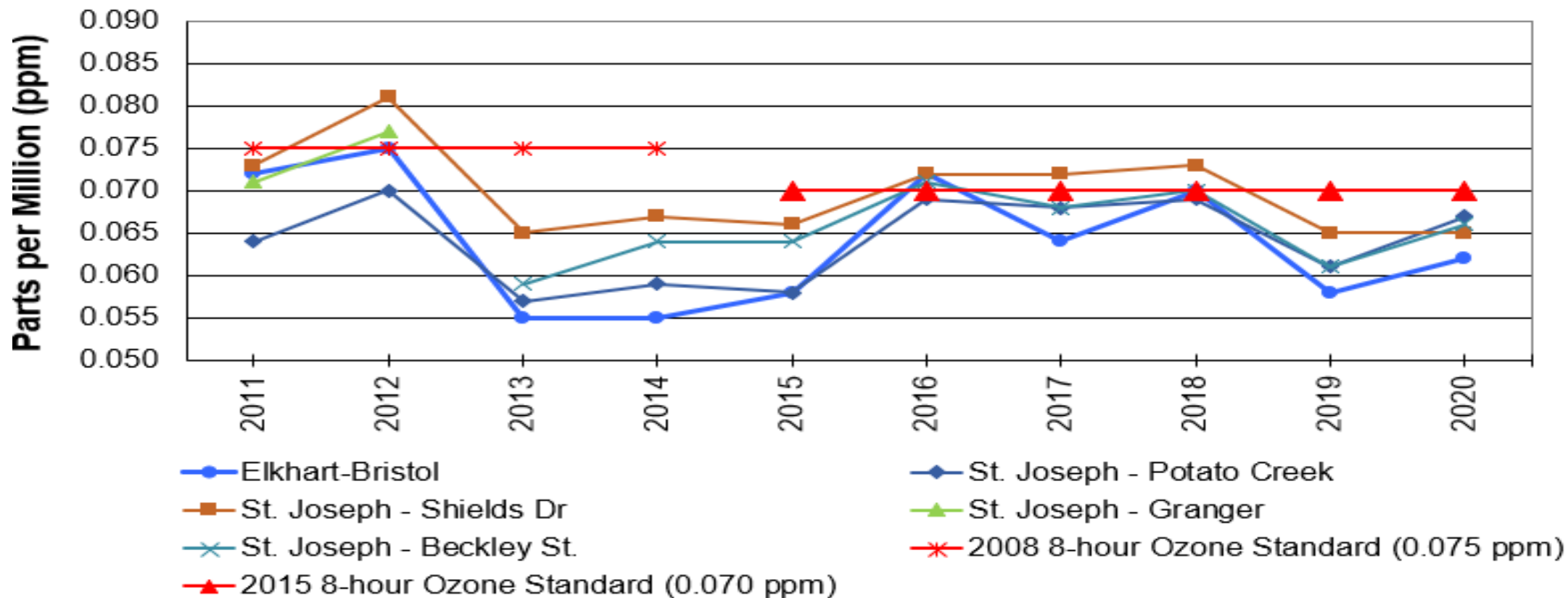
PM_{2.5}





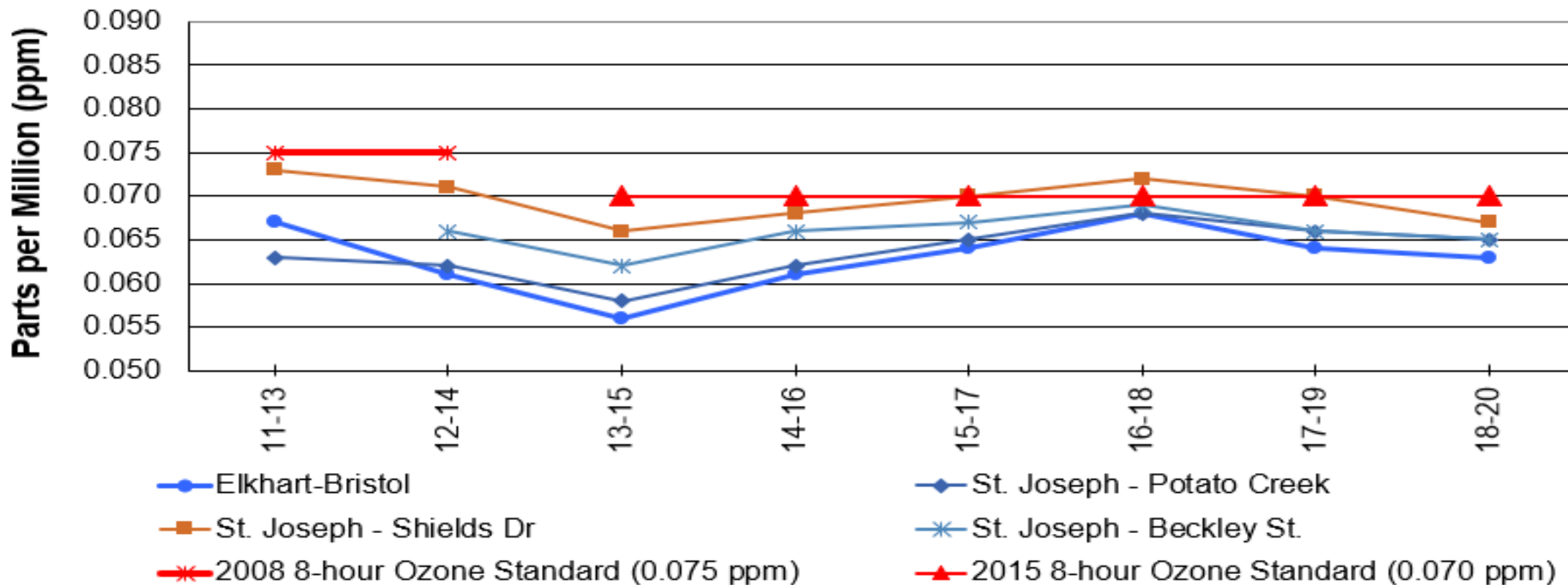
Ozone

**Ozone 4th - High Daily Maximum 8-Hour Values Trend Chart
North Central Indiana**



Ozone

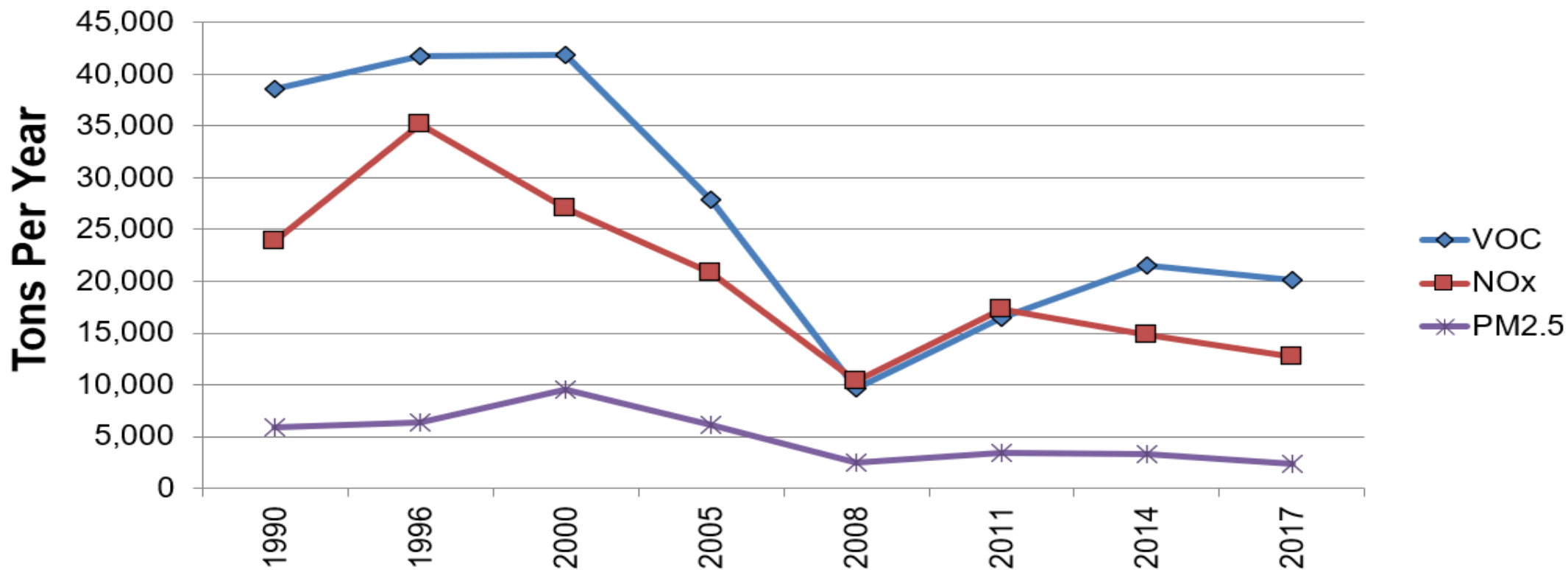
**Ozone Design Values Trend Chart
North Central Indiana**





Long-Term Emission Trends

Emission Trends – Elkhart and St. Joseph Counties



Emissions based on U.S. EPA's National Emissions Inventory (NEI) data.



Current Schedule for Ongoing National Ambient Air Quality Standards (NAAQS) Review

NAAQS Review/Updates

	Ozone	Lead	Primary NO ₂	Primary SO ₂	Secondary NO ₂ , SO ₂ , PM ¹	PM ²	CO
Last Review Completed Final Rule Signed	Dec 2020	Sept 2016	April 2018	Feb 2019	Mar 2012	Dec 2020	Aug 2011
Recent or Upcoming Major Milestone(s)	TBD ³	TBD ³	TBD ³	TBD ³	Final ISA; draft REA/PA ^{2, 3}	TBD ³	TBD ³

¹ Combined secondary (ecological effects only) review of NO₂, SO₂, and PM.

² ISA – Integrated Science Assessment; REA – Risk and Exposure Assessment; PA – Policy Assessment.

³ TBD = To Be Determined.

Historical and Anticipated NAAQS Implementation Milestones

Pollutant	Final NAAQS Date	Designations Effective	Infrastructure SIP Due	Attainment Plans Due	Attainment Date
Ozone (2008)	Mar 2008	Jul 2012	Mar 2011	July 2015-2016 ¹	July 2018-2032
Ozone (2015)	Oct 2015	Aug 2018	Oct 2018	Aug 2021-2022 ²	Aug 2021-2038
Lead (2008)	Oct 2008	Dec 2010-2011	Oct 2011	Jun 2012-2013	Dec 2015-2016
Primary NO ₂ (2010)	Jan 2010	Feb 2012	Jan 2013	N/A	N/A
Primary SO ₂ (2010)	Jun 2010	Oct 2013, Sep 2016, Apr 2018, Apr 2021	Jun 2013	Apr 2015, Mar 2018, Oct 2019, Oct 2022	Oct 2018, Sep 2021, Apr 2023, Apr 2026
PM _{2.5} (2006)	Oct 2006	Dec 2009	Oct 2009	Dec 2014 (Moderate) Dec 2017 (Serious)	Dec 2015 (Moderate) Dec 2019 (Serious)
PM _{2.5} (2012)	Dec 2012	Apr 2015	Dec 2015	Oct 2016 (Moderate)	Dec 2021 (Moderate) Dec 2025 (Serious)

¹ January 2017 for areas reclassified from Marginal to Moderate. August 2020 for areas reclassified from Moderate to Serious.

² Attainment plans are only due for areas classified as Moderate or above.



8-Hour Ozone Area Designations

8-Hour Ozone Area Designations

- On Oct. 1, 2015, U.S. EPA promulgated a rule to revise and strengthen the 8-hour ozone standard to 0.070 parts per million (ppm).
- U.S. EPA intended to promulgate final designations for all areas of the country under the 2015 8-hour standard by no later than Oct. 1, 2017. Federal actions delayed the federal review process, resulting in two rounds of designations.
- On Nov. 6, 2017, U.S. EPA designated 74 of Indiana's 92 counties as "attainment/unclassifiable" in the first round of air quality designation under the NAAQS.

8-Hour Ozone Area Designations

- On April 30, 2018, U.S. EPA designated Indiana’s remaining counties. Clark and Floyd counties were designated as part of the Louisville, KY-IN marginal nonattainment area and Calumet, Hobart, North, Ross, and St. John townships in Lake County were designated as part of the Chicago, IL-IN-WI marginal nonattainment area. Remaining areas of the state were designated as “attainment/unclassifiable.”
- Designations became effective on Aug. 3, 2018, establishing an attainment date of Aug. 3, 2021.
- On July 20, 2020, the U.S. Court of Appeals for the D.C. Circuit ordered U.S. EPA to review the ozone air quality designations in several states, including Porter County, Indiana.



Indiana Volkswagen Mitigation Trust Program

Indiana Volkswagen Program to Date

- Rounds 1 and 2 of Onroad and Nonroad in addition to DieselWise Indiana with VW DERA Option Programs complete
 - Roughly \$16.4 million awarded
 - Nearly 400 vehicles or pieces of equipment improved
- Indiana Statewide Electric Vehicle Charging Network Program
 - 45 applications for 287 charging stations received for Level 2 and DC Fast installations at 93 Indiana cities and towns
 - 35 awards made for Level 2 charging stations in 57 locations
 - Final four DC Fast being reviewed at this time

2021 Indiana Volkswagen Program Round 3 - Onroad and Nonroad Funding

- \$12 million is available for clean diesel projects from IVMTTP!
 - \$4.26 million for Class 4-8 Onroad Vehicles (excluding school buses)
 - \$1.99 million for non-electric-powered school buses
 - \$850 thousand for electric-powered school buses
 - \$2.73 million for nonroad equipment and vehicles
 - \$2.17 million IDEM discretionary projects from above
 - Minimum single grant award: \$50,000
 - Maximum single grant award: \$2,000,000
 - Applications due Tuesday, June 1, 2021
 - Most projects expected to be completed by Dec. 31, 2022

Eligible Vehicles, Engines, and Equipment

Projects may include, but are not limited to:

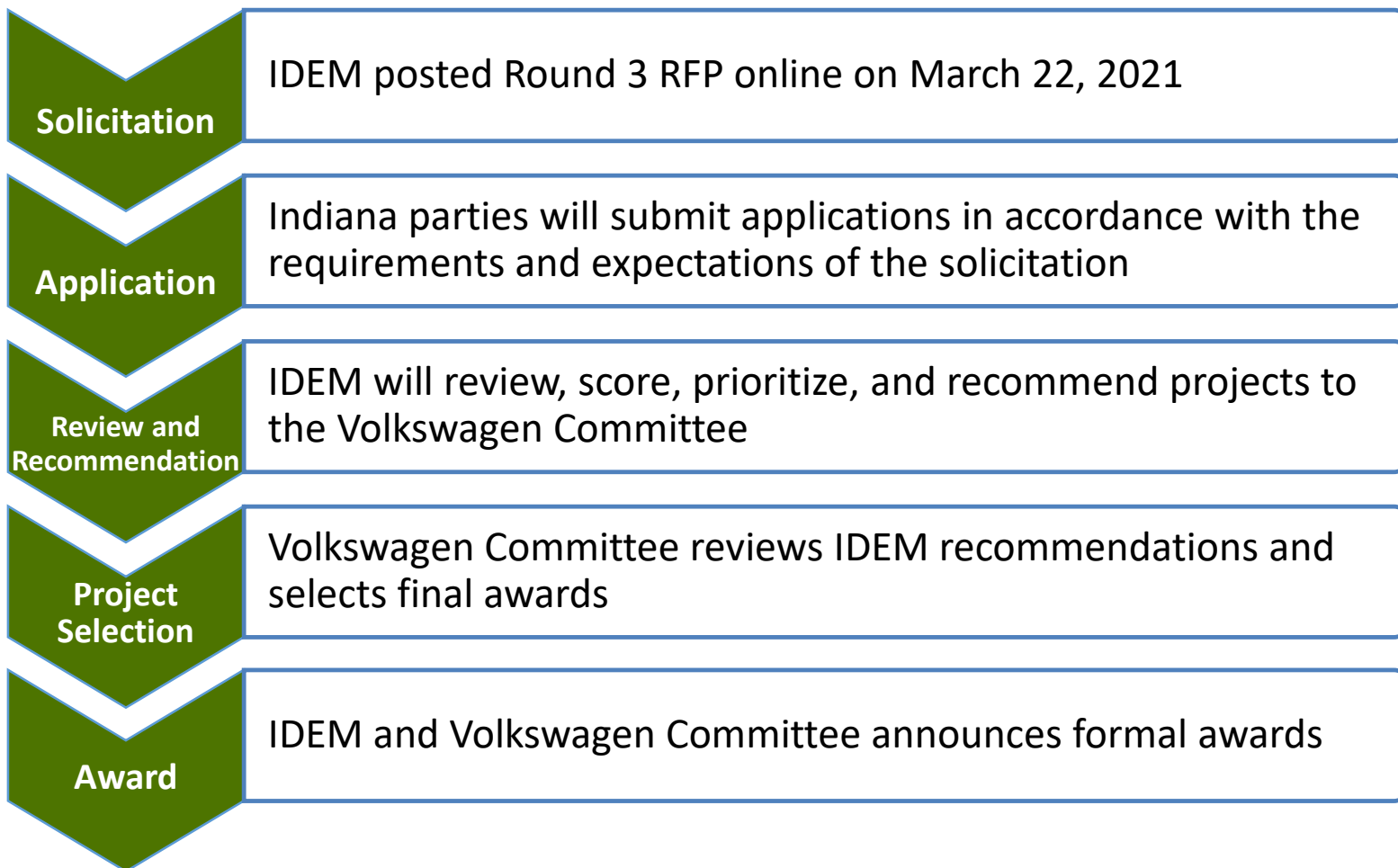
- Class 4-8 medium-duty or heavy-duty trucks
- Class 4-8 buses
- Pre-Tier 3 ferry and tugboat marine engines
- Pre-Tier 4 freight switcher locomotives
- Pre-Tier 3 airport ground support equipment
- Over 8,000-pound lift capacity forklifts and port cargo handling equipment

Round 3 Revisions and Reminders

There are a few subtle changes to the Round 3 RFP:

- No onroad diesel-to-diesel repower or replacement projects are eligible in Round 3
- No lease or installment purchase programs are eligible for funding
- Any third-party funds being used in project must be “in-house” and fully “dedicated”
- No contingent funding will be considered
- No “in-kind” matches will be considered towards the applicants’ required match; cash only
- Hard limit on 10-page narrative section

Project Application, Prioritization and Selection Process



Estimated Timeline

Milestone	Estimated Date	Accumulated Time from Posting
Solicitation Posted to Website	March 23, 2021	
Proposal Receipt Deadline	June 1, 2021	10 Weeks
Proposal Review, Prioritization, and Selection	June 28, 2021	14 Weeks
Selected Proposal Notification	July 2021	16 Weeks
Grant Agreements Fully Executed	Aug. 2021	20 Weeks
Projects Complete and Fully Implemented	Dec. 31, 2022	93 Weeks
Round 3 - DERA Option of Volkswagen Program	Fall 2021	

For More Information

IDEM's Office of Air Quality:

www.idem.IN.gov/airquality

Indiana Volkswagen Mitigation Trust Program:

www.idem.IN.gov/vwtrust

Submit Volkswagen grant applications to:

VWTrust@idem.IN.gov

For program assistance:

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