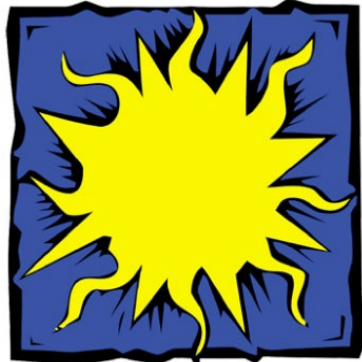




North Central Indiana Air Quality and Indiana Volkswagen Mitigation Trust Program Update

PARTNERS FOR



CLEAN AIR

Shawn Seals

Senior Environmental Manager

Office of Air Quality

Indiana Department of

Environmental Management

April 19, 2023



Presentation Summary

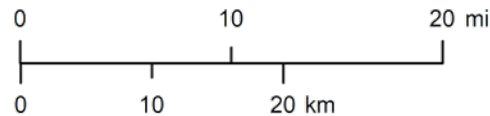
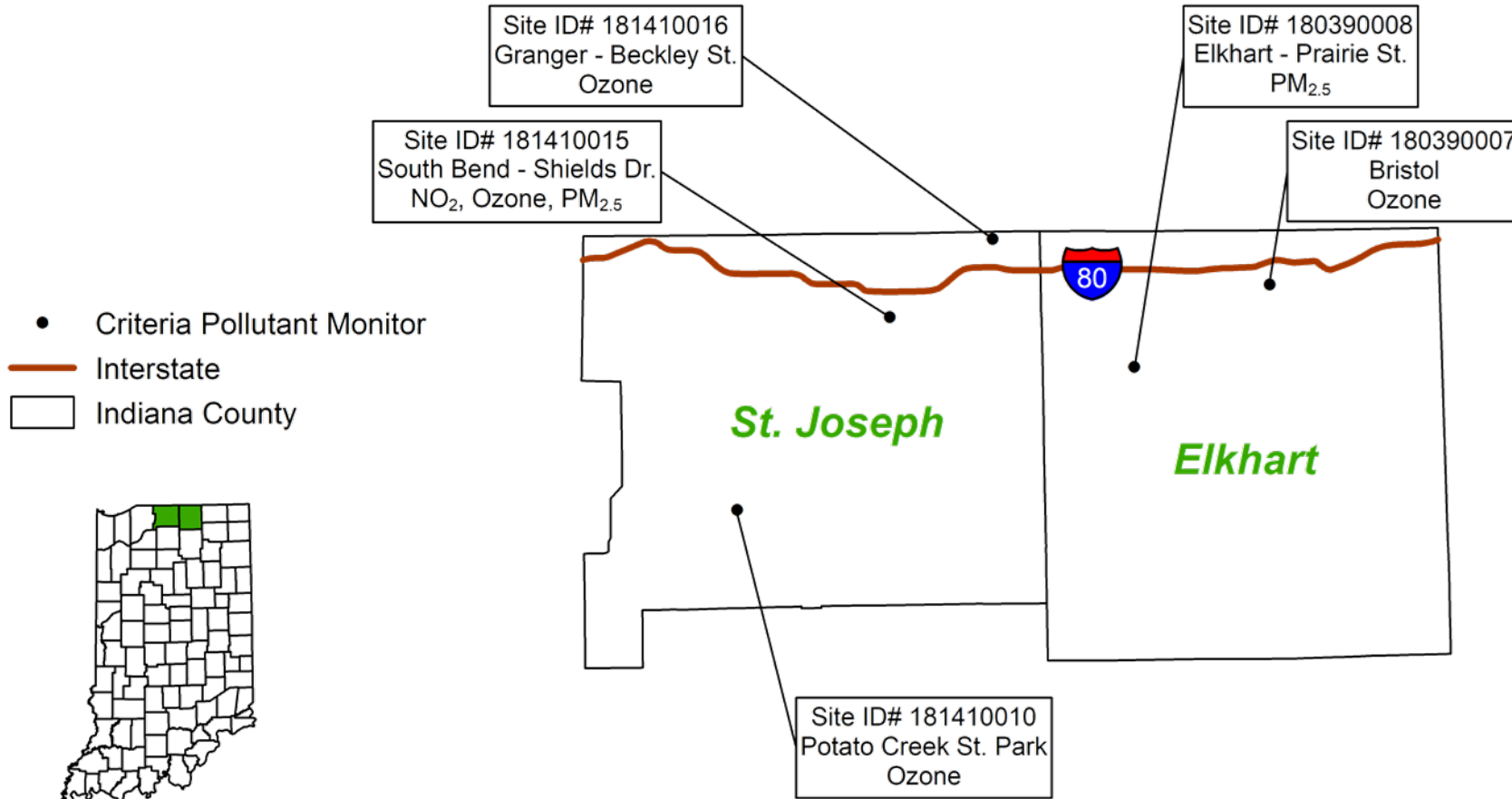
- Geographic area
- Long-term air quality trends
- Long-term emission trends
- Current schedule for ongoing National Ambient Air Quality Standards (NAAQS) review
- Indiana Volkswagen Mitigation Trust Program



Geographic Area



Criteria Pollutant Monitors for Elkhart and St. Joseph Counties



Date: 4/6/2023
 Mapped By: C. Mitchell, OAQ
 Sources: Office of Air Quality
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83

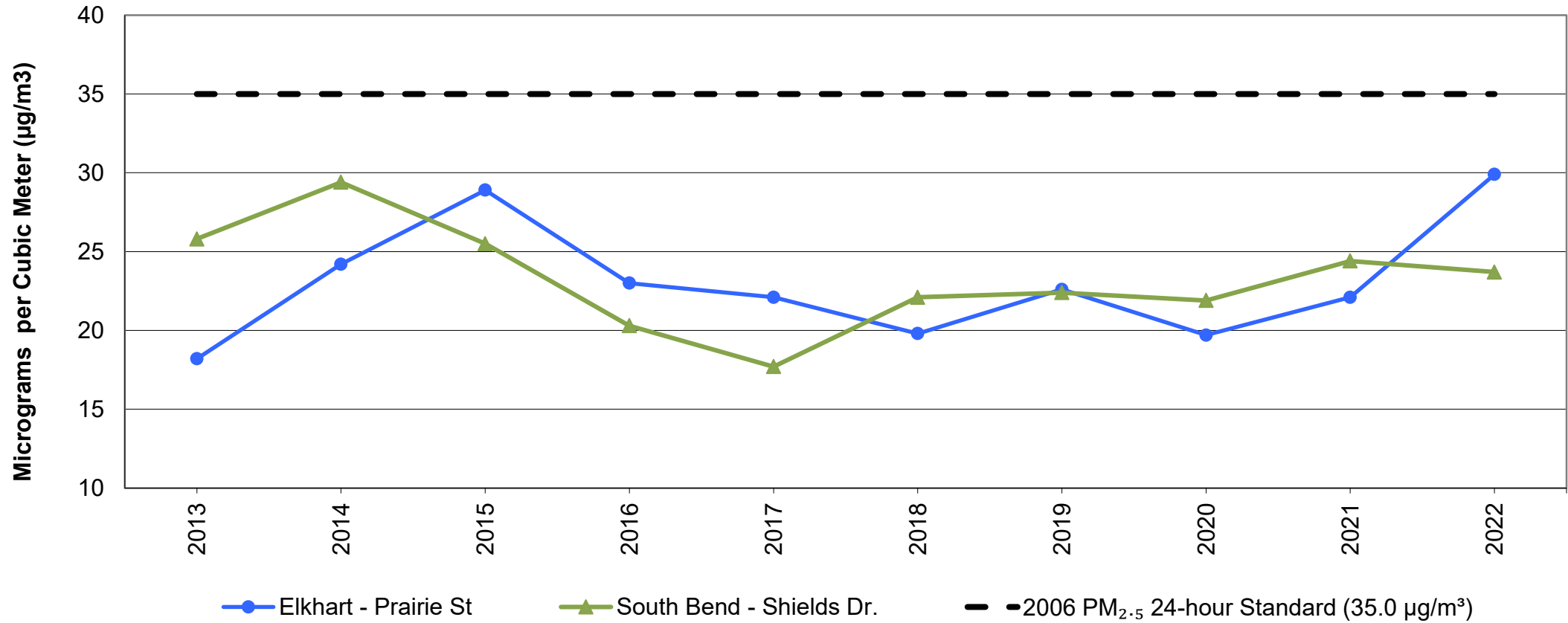


Long-Term Air Quality Trends



PM_{2.5}

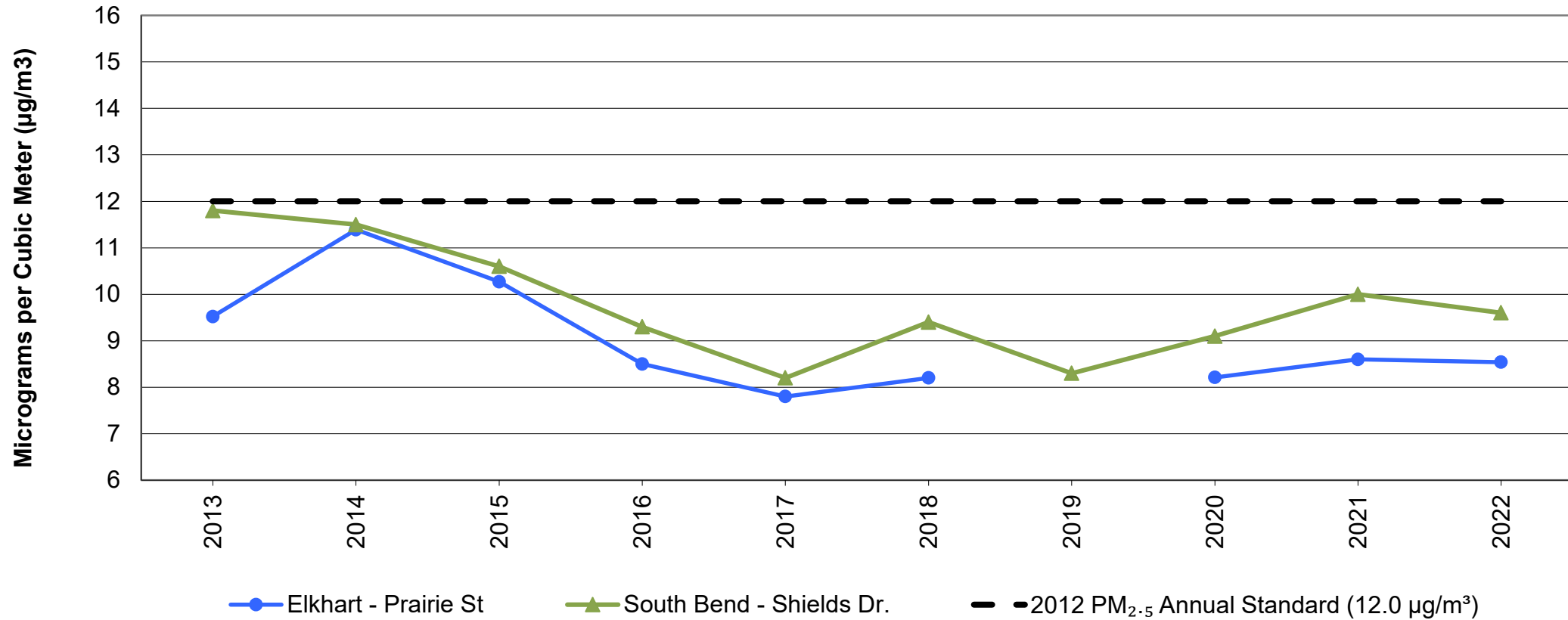
PM_{2.5} 98th Percentile Values Trend Chart North Central Indiana

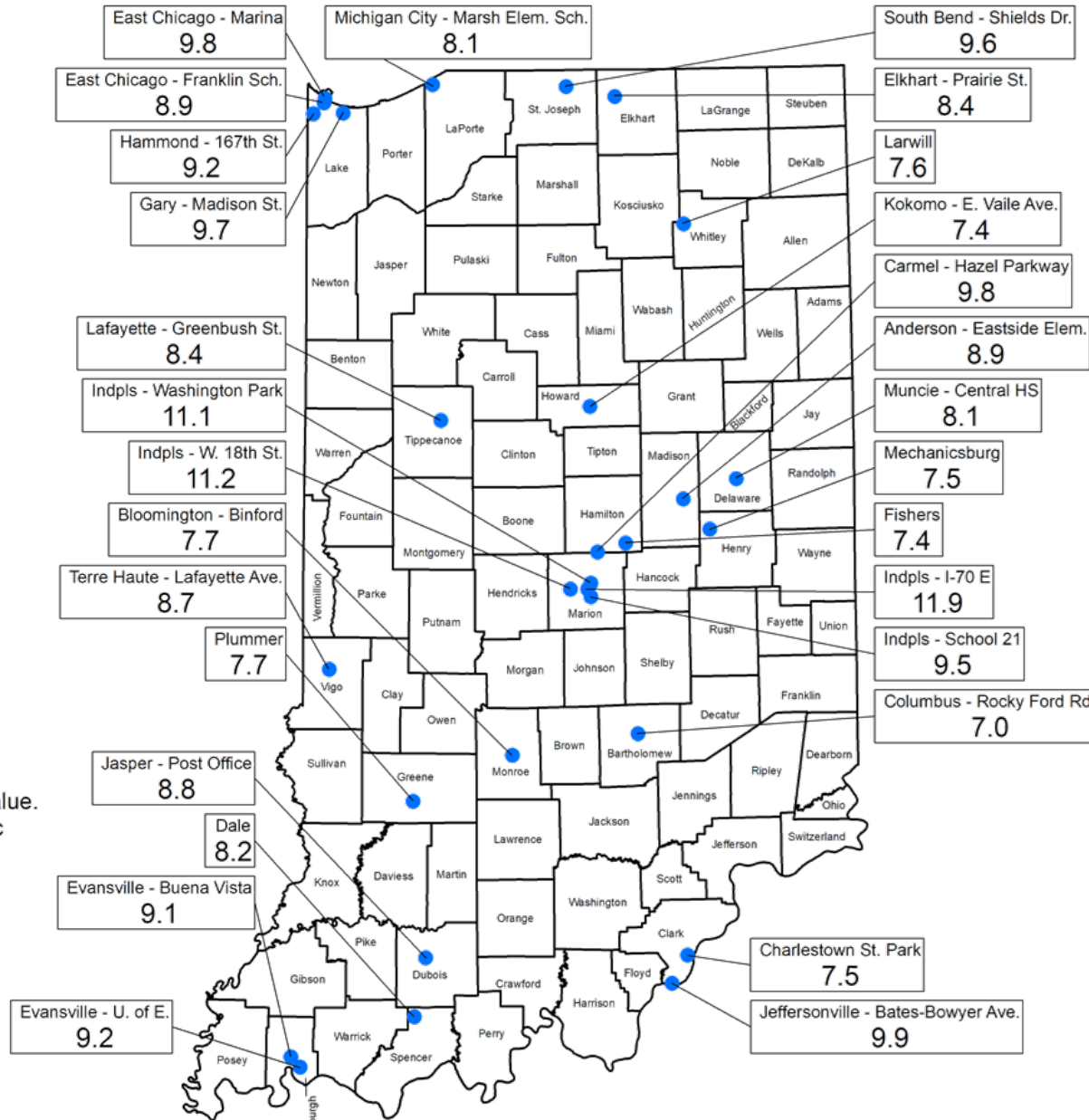




PM_{2.5}

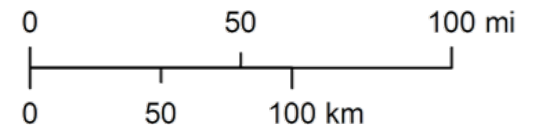
PM_{2.5} Annual Mean Summary Trend Chart North Central Indiana





PM_{2.5} Annual Design Values 2020 - 2022

Standard set at 12.0 µg/m³



● PM_{2.5} monitor with design value less than or equal to the standard.

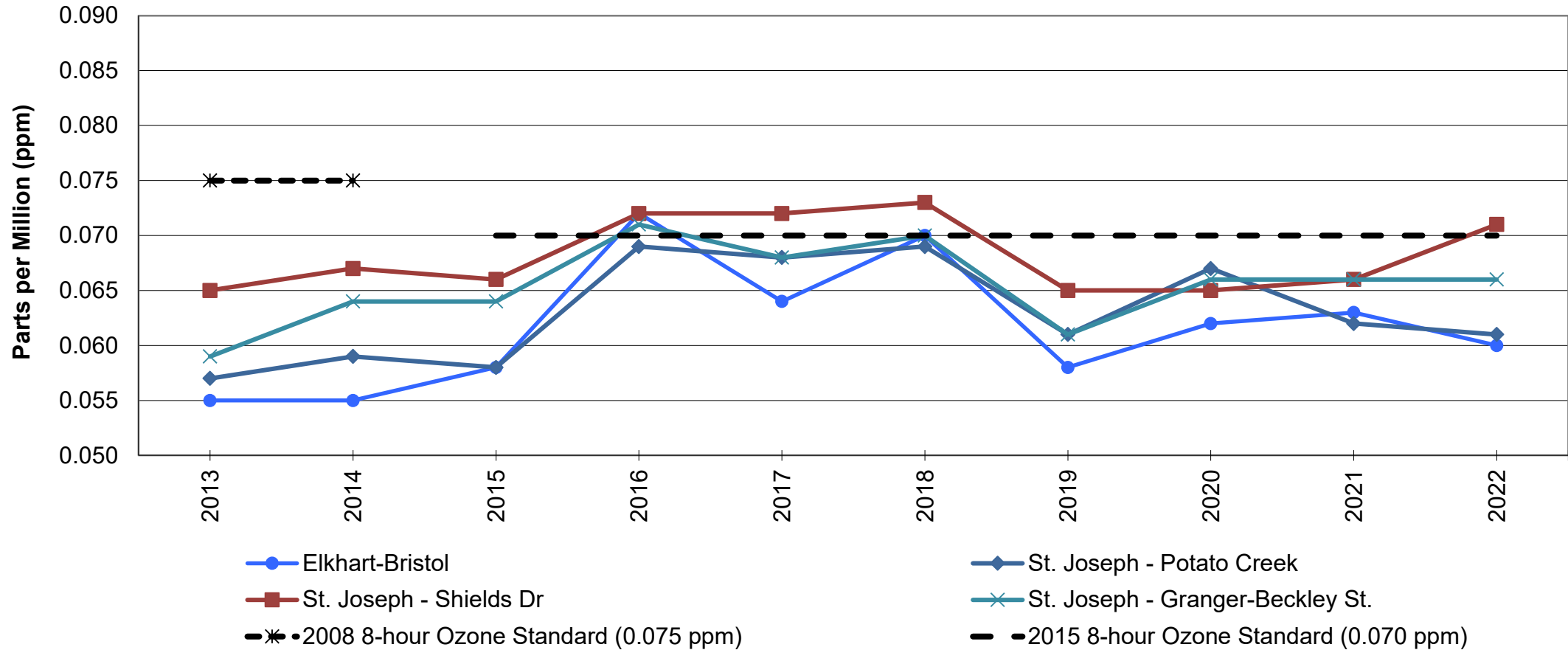
- Notes:**
- Map excludes monitors with an invalid design value.
 - Posted data are in units of micrograms per cubic meter (µg/m³).

Mapped By: C. Mitchell, OAQ
 Date: 04/06/2023
 Source: IDEM, Air Monitoring
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83



Ozone

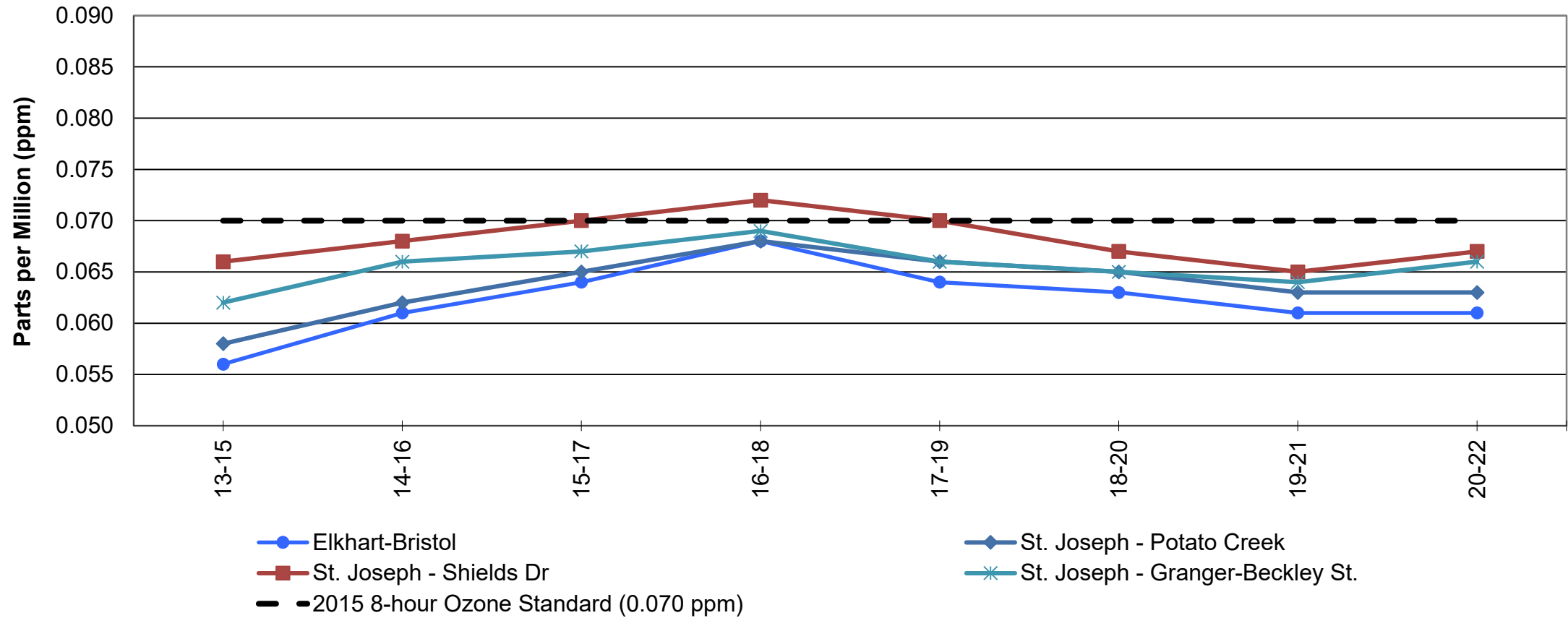
Ozone 4th - High Values Trend Chart North Central Indiana

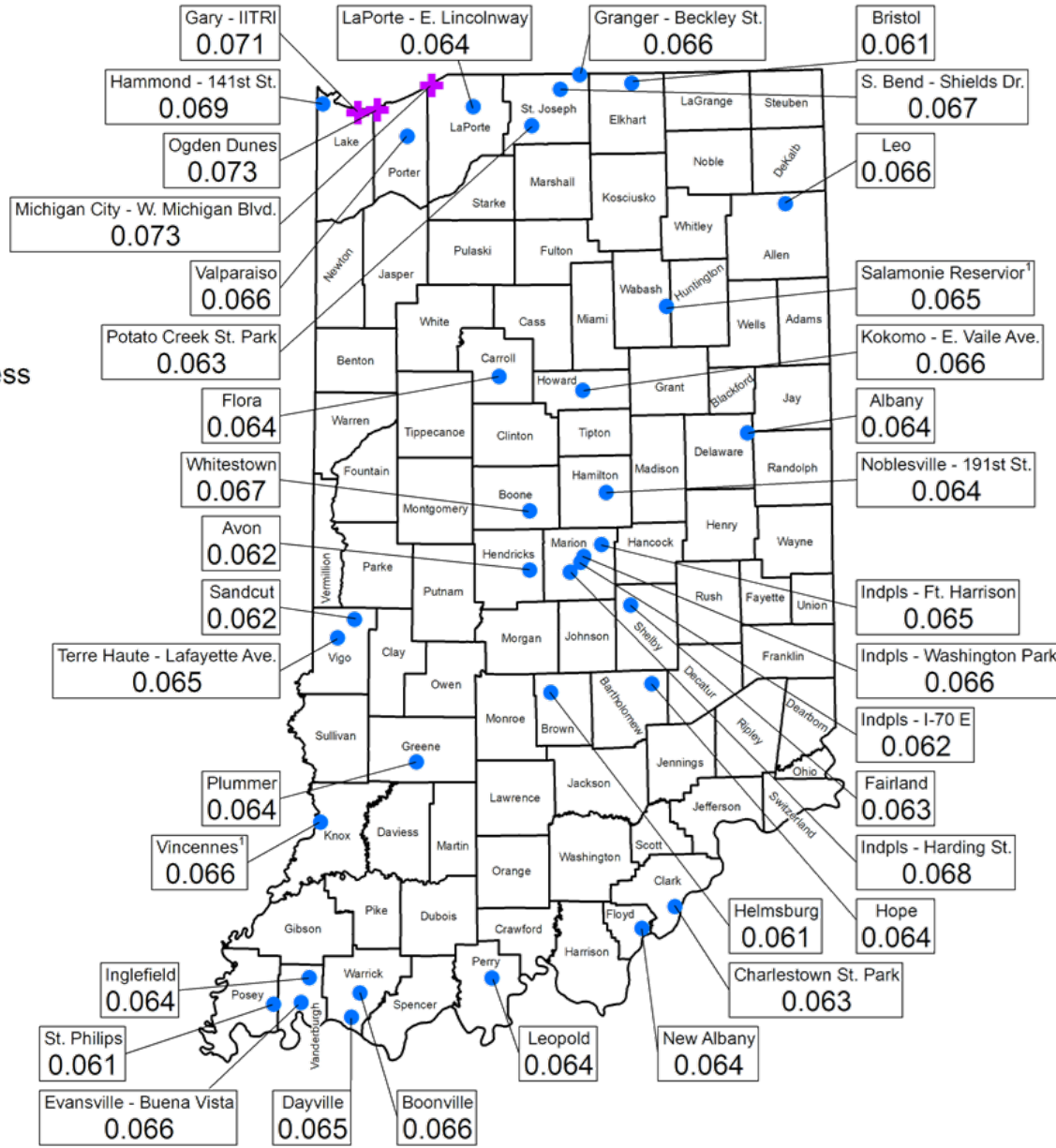




Ozone

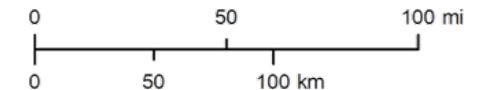
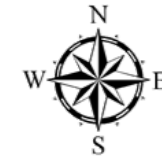
Ozone Design Values Trend Chart North Central Indiana





Ozone 8-Hour Design Values 2020 - 2022

Standard set at 0.070 ppm



- Ozone monitor with design value less than or equal to the standard of 0.070 ppm.
- ✚ Ozone monitor with design value greater than the standard of 0.070 ppm.

Notes:

- Map excludes monitors with an invalid design value.
- Posted data are in units of parts per million (ppm).
- 1 indicates monitors owned and operated by the U.S. Environmental Protection Agency (U.S. EPA).

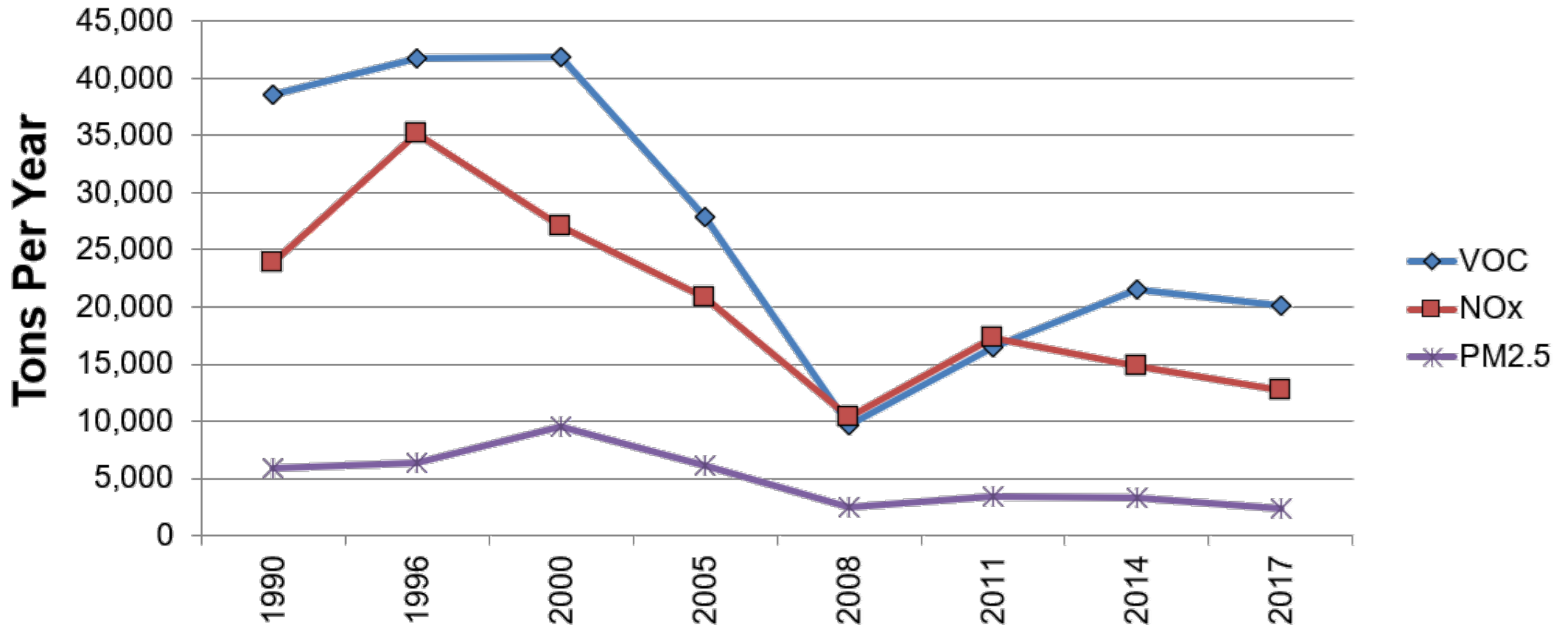
Mapped By: C. Mitchell, OAQ
 Date: 04/06/2023
 Source: IDEM, Air Monitoring
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83



Long-Term Emission Trends



Emission Trends – Elkhart and St. Joseph Counties



Emissions based on U.S. EPA's National Emissions Inventory (NEI) data. U.S. EPA has discouraged the use of 2020 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 (Ecological Effects Only)	PM	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)	Currently Under Review ¹ Draft PA ²	Currently Under Review Draft IRP ³ /ISA ⁴	Draft ISA ⁴	TBD ⁵	Currently Under Review ⁶ Draft REA ⁷ /PA ²	Currently Under Review ⁸	TBD ⁵

- ¹ U.S. EPA is reconsidering the 2020 decision to retain the 2015 standards and expects to propose a decision by the spring of 2024.
- ² PA – Policy Assessment.
- ³ IRP – Integrated Review Plan.
- ⁴ ISA – Integrated Science Assessment.
- ⁵ TBD – To Be Determined.
- ⁶ U.S. EPA expects to propose revisions to the secondary NO₂, SO₂, and PM NAAQS by Feb 9, 2024, with final revisions by Dec 10, 2024.
- ⁷ REA – Risk and Exposure Assessment.
- ⁸ U.S. EPA proposed decisions regarding reconsideration of PM NAAQS on January 27, 2023, with final revisions by the fall of 2023.



Indiana Volkswagen Mitigation Trust Program



North Central Indiana VW Projects to Date (Rounds 1 through 3 of VW Program)

Award Recipient	Project City	Project Fuel Type	Number of Vehicles Funded	Project Award	Project Total
Wa-Nee Schools	Nappanee	Propane	18	\$500,321	\$2,001,284
Penn-Harris-Madison Schools	Mishawaka	Diesel	10	\$294,033	\$1,176,133
South Bend Transpo	South Bend	CNG	12	\$1,437,102	\$6,423,419
City of South Bend	South Bend	CNG	2	\$123,272	\$493,088
South Bend Community Schools	South Bend	Electric	1	\$314,004	\$418,673
TOTALS				\$2,546,441	\$10,023,433

NOTE: IDEM intends to publish a targeted Round 4 request for proposal sometime this summer.

School Bus Projects



South Bend Schools - Electric



Wa-Nee and Penn-Harris-Madison
Schools – New Diesel

Truck and Transit Bus Projects



South Bend Transpo - CNG



City of South Bend - CNG



North Central Indiana Level 2 EV Charging Stations Funded Through Indiana VW Program

Award Recipient	Number of Stations Funded	Project Award	Project Total
Indiana University - South Bend	1	\$9,000	\$15,677
Town of Culver	1	\$9,000	\$14,582
City of Elkhart (2)	2	\$18,000	\$33,366
City of Goshen	1	\$9,000	\$24,457
Goshen Public Library	1	\$9,000	\$14,882
City of Plymouth	1	\$9,000	\$16,207
City of Mishawaka	1	\$9,000	\$19,683
City of South Bend	1	\$9,000	\$17,607
City of Warsaw (2)	2	\$18,000	\$30,414
TOTALS	11	\$99,000	\$186,875



North Central Indiana DC Fast EV Charging Stations Funded Through Indiana VW Program

Station Location	Number of Stations Funded	Project Award	Project Total
City of South Bend	1	\$90,734	\$250,000
City of Mishawaka	2	\$181,468	\$500,000
City of Elkhart	2	\$181,468	\$500,000
City of Plymouth	1	\$90,734	\$250,000
TOTALS	6	\$544,404	\$1,500,000



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:

Shawn Seals

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