Appendix I
EJ Memo to FRA
8/4/2024

AMERICAN STRUCTUREPOINT INC.

9825 Kenwood Road, Suite 305
Cincinnati, Ohio 45242
(513) 407-8317

www.structurepoint.com

M E M O R A N D U M

DATE: August 2, 2024

TO: Federal Railroad Administration

FROM: Gwyneth Hagerty (American Structurepoint)

RE: Symmes Road Rail Grade Separation/North Gilmore Road Rail Crossing Closure - Environmental Justice Screening

CC: Rick Paul (American Structurepoint)

HDR Engineering, Inc. is advancing a project that includes constructing a rail grade separation on Symmes Road and evaluating the feasibility of closing the North Gilmore Road rail crossing in Fairfield, Butler County, Ohio. The proposed grade separation study area is located along Symmes Road between Dixie Highway and North Gilmore Road and extends approximately 780 feet to the south along Industry Drive and 760 feet to the north along Tedia Way. The proposed closure of the Gilmore Road crossing is located approximately 840 feet south of Symmes Road and extends approximately 1,630 feet to the south along North Gilmore Road. Maps of the study areas are included in Attachment A.

The US Environmental Protection Agency (EPA) defines “environmental justice” as the just treatment and meaningful involvement of all people regardless of income, race, color, national origin, Tribal affiliation, or disability, in agency decision-making and other Federal activities that affect human health and the environment. As the Symmes Road Grade Separation Project, including the proposed closure of the Gilmore Road crossing, involves funding from the Federal Rail Administration, an environmental justice screening was completed to identify environmental justice communities in the vicinity of the project. The US EPA’s EJScreen tool was used to determine whether minority, low-income, limited English speaking, elderly, disabled, or Native American populations are present within the study areas. The reports generated by the EJScreen tool for census blocks overlapping with the Symmes Road Crossing and Gilmore Road Crossing study areas are included in Attachment B and summarized below.

Table 1. Symmes Road Crossing Study Area Demographic Data Summary

Census Block	Minority Populations	Limited English Households	Low-Income Populations	Elderly Populations	Disabled Populations	Native American Populations
390170109041	6%	0%	3%	22%	8%	0%
390170109061	82%	40%	83%	8%	11%	0%
390170110044	35%	6%	36%	12%	10%	0%

Table 2. Gilmore Road Crossing Study Area Demographic Data Summary

Census Block	Minority Populations	Limited English Households	Low-Income Populations	Elderly Populations	Disabled Populations	Native American Populations
390170109061	82%	40%	83%	8%	11%	0%
390170110044	35%	6%	36%	12%	10%	0%
390170109131	71%	0%	0%	16%	8%	0%

Attachment A:

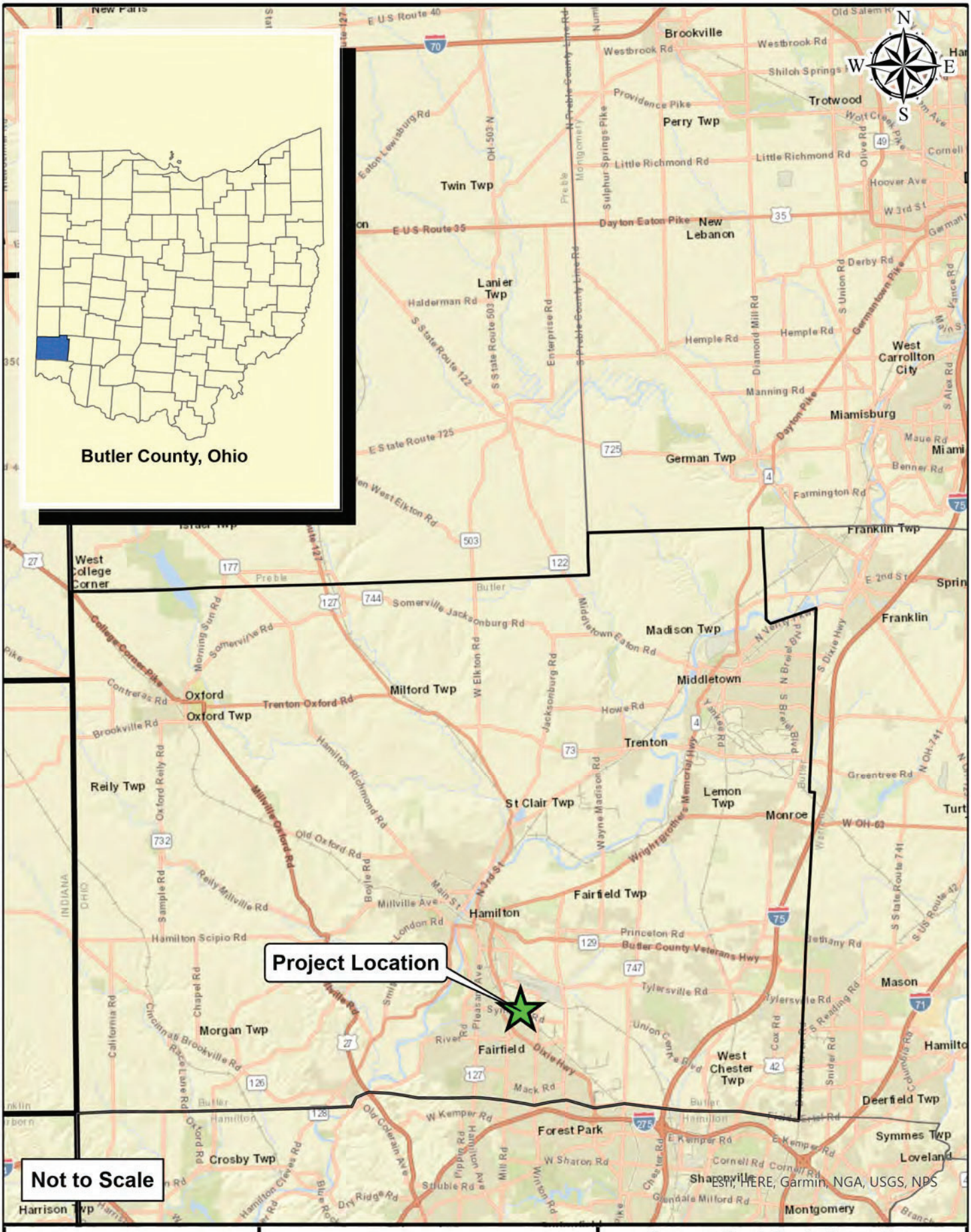
Symmes Road Crossing Project Location Map
Symmes Road Crossing Aerial Map
Gilmore Road Crossing Project Location Map
Gilmore Road Crossing Aerial Map

Attachment B:

EJScreen Report Census Block 390170109041
EJScreen Report Census Block 390170109061
EJScreen Report Census Block 390170110044
EJScreen Report Census Block 390170109131

Attachment A

Symmes Road Crossing Project Location Map
Symmes Road Crossing Aerial Map
Gilmore Road Crossing Project Location Map
Gilmore Road Crossing Aerial Map



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County Map

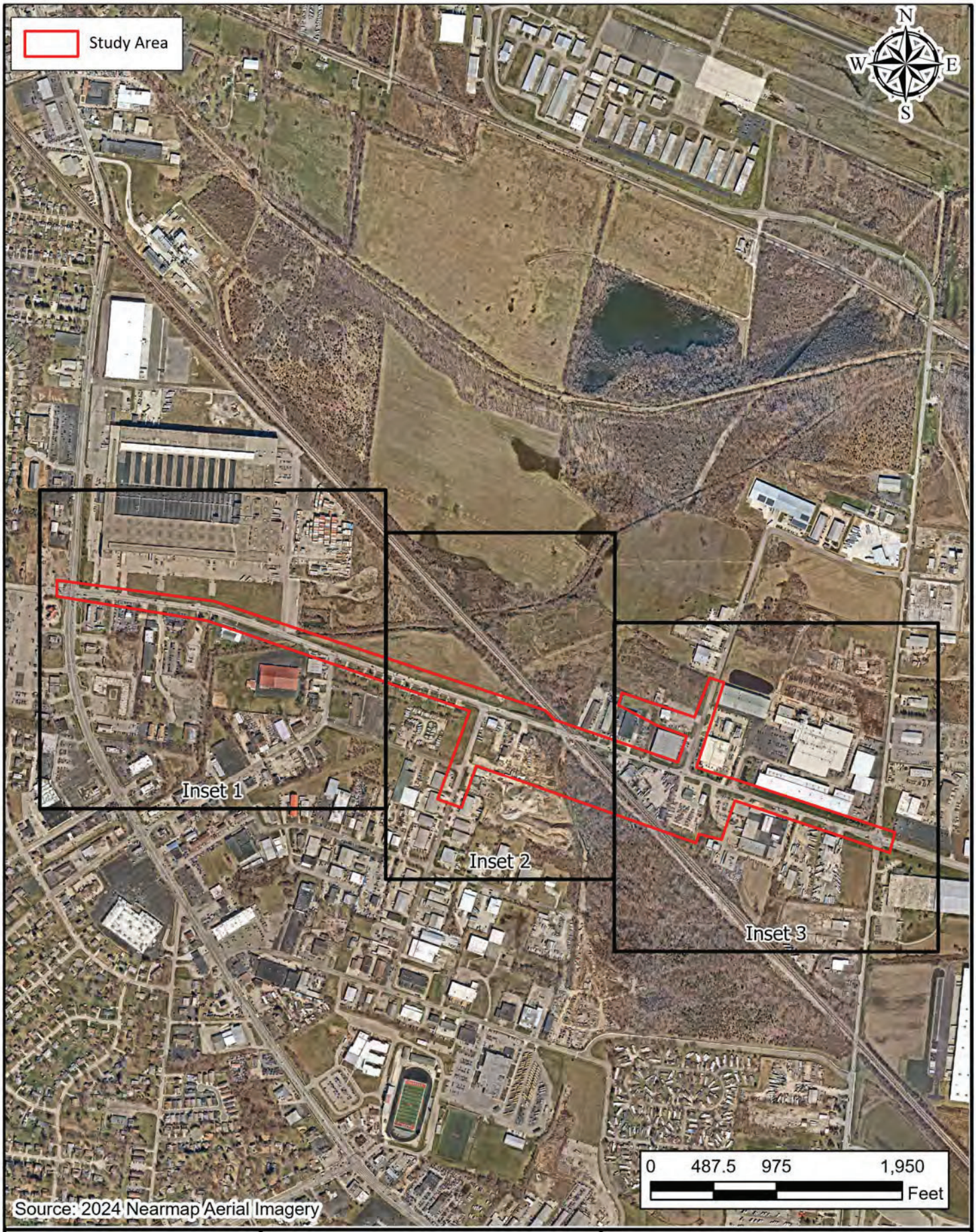
Client:
HDR Engineering, Inc.
9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Symmes Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024

Path: O:\2023\02025\C. Design\Study\12345_ProjDescription\200-Environmental\Mapping\ArcProProjects\SymmesGilmoreMainArcPro\SymmesGilmoreMainArcPro.aprx Date:7/15/2024 User:ghagerty



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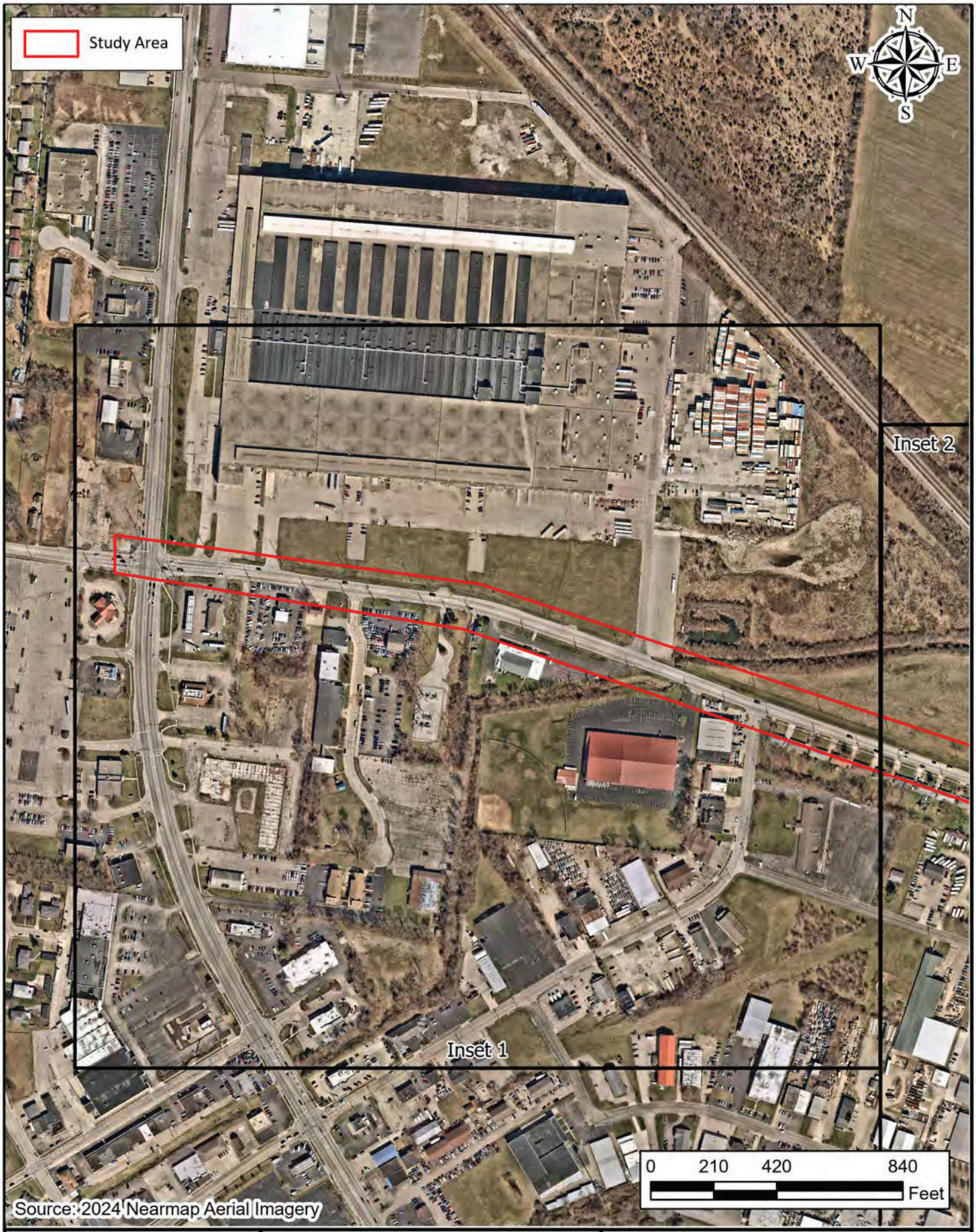
Aerial Map

Client:
HDR Engineering, Inc.
9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Symmes Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024



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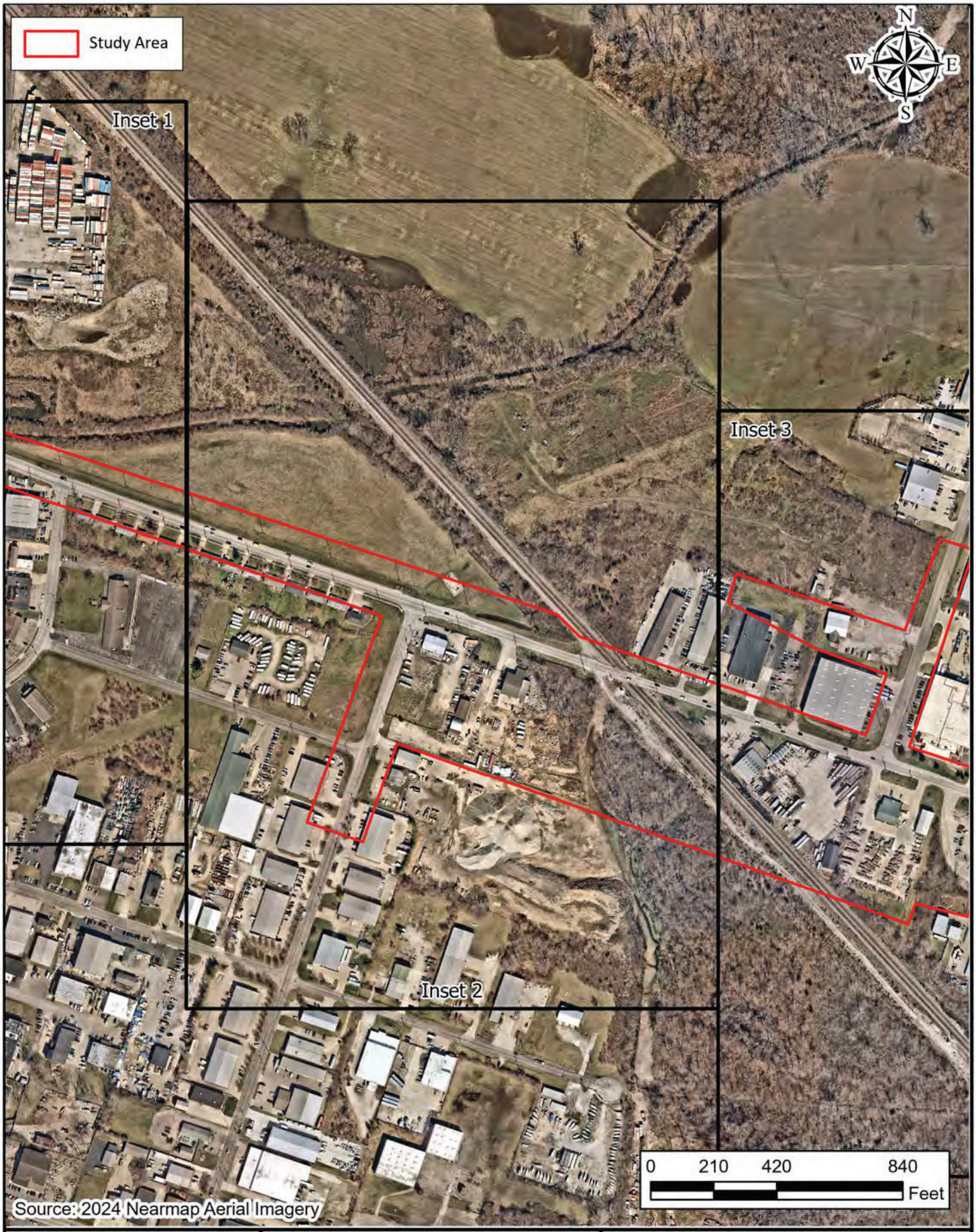
Aerial Map (1)

Client:
HDR Engineering, Inc.
9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Symmes Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024



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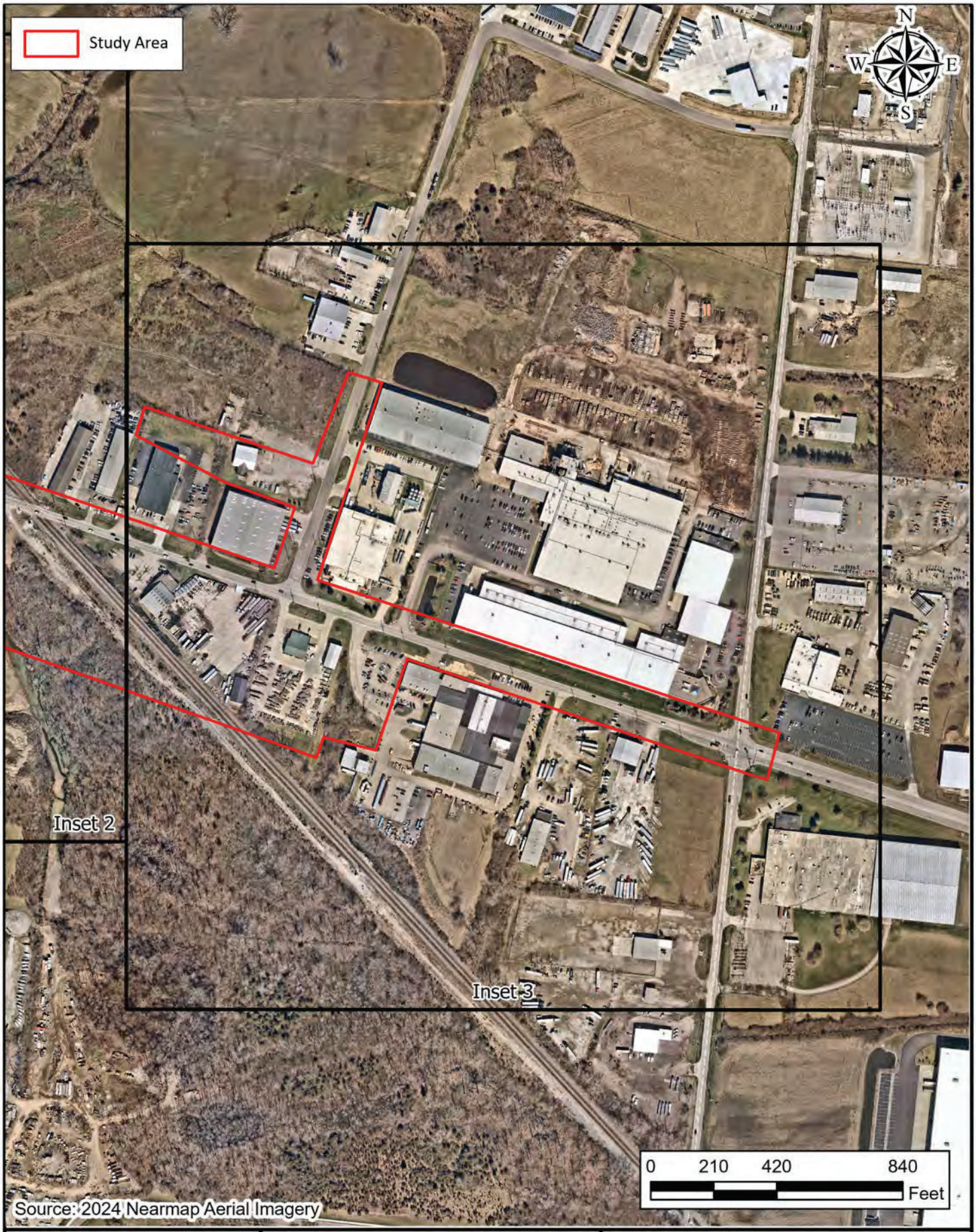
Aerial Map (2)

Client:
HDR Engineering, Inc.
9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Symmes Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024



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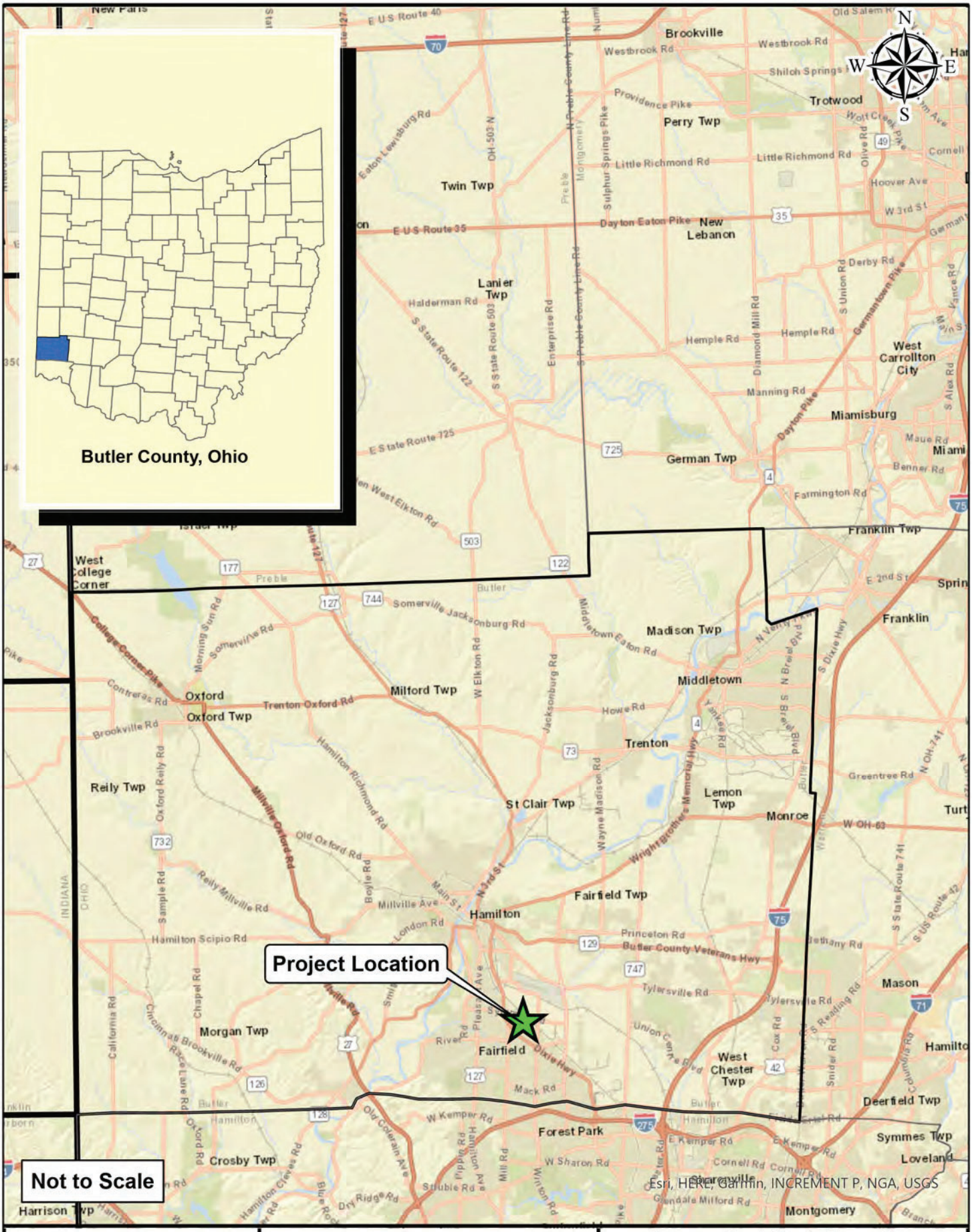
Aerial Map (3)

Client:
HDR Engineering, Inc.
9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Symmes Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024



AMERICAN STRUCTUREPOINT INC.

County Map

Client:
HDR Engineering, Inc.
9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Gilmore Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024

Path: O:\2023\02025\C. Design\Study\12345_ProjDescription\200-Environmental\Mapping\ArcProProjects\SymmesGilmoreMainArcPro\SymmesGilmoreMainArcPro.aprx Date:7/15/2024 User:ghagerty

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Aerial Map

Client:
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9999 Carver Rd, Suite 210
Cincinnati, Ohio 45242

Symmes Road Grade Separation
Gilmore Road Crossing

Location: Fairfield
County: Butler
State: Ohio

Date: 04/29/2024

Attachment B

EJScreen Report Census Block 390170109041
EJScreen Report Census Block 390170109061
EJScreen Report Census Block 390170110044
EJScreen Report Census Block 390170109131

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Fairfield, OH

Blockgroup: 390170109041
Population: 858
Area in square miles: 0.28

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	93%
Vietnamese	1%
Other and Unspecified	6%
Total Non-English	7%

COMMUNITY INFORMATION

- Low income: 3 percent
- People of color: 6 percent
- Less than high school education: 6 percent
- Limited English households: 0 percent
- Unemployment: 0 percent
- Persons with disabilities: 8 percent
- Male: 45 percent
- Female: 55 percent
- 73 years — Average life expectancy
- $43,711 — Per capita income
- Number of households: 336
- Owner occupied: 86 percent

BREAKDOWN BY RACE

- White: 94%
- Black: 1%
- American Indian: 0%
- Asian: 0%
- Hawaiian/Pacific Islander: 0%
- Other race: 0%
- Two or more races: 1%
- Hispanic: 3%

BREAKDOWN BY AGE

From Ages 1 to 4	0%
From Ages 1 to 18	11%
From Ages 18 and up	89%
From Ages 65 and up	22%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	0%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

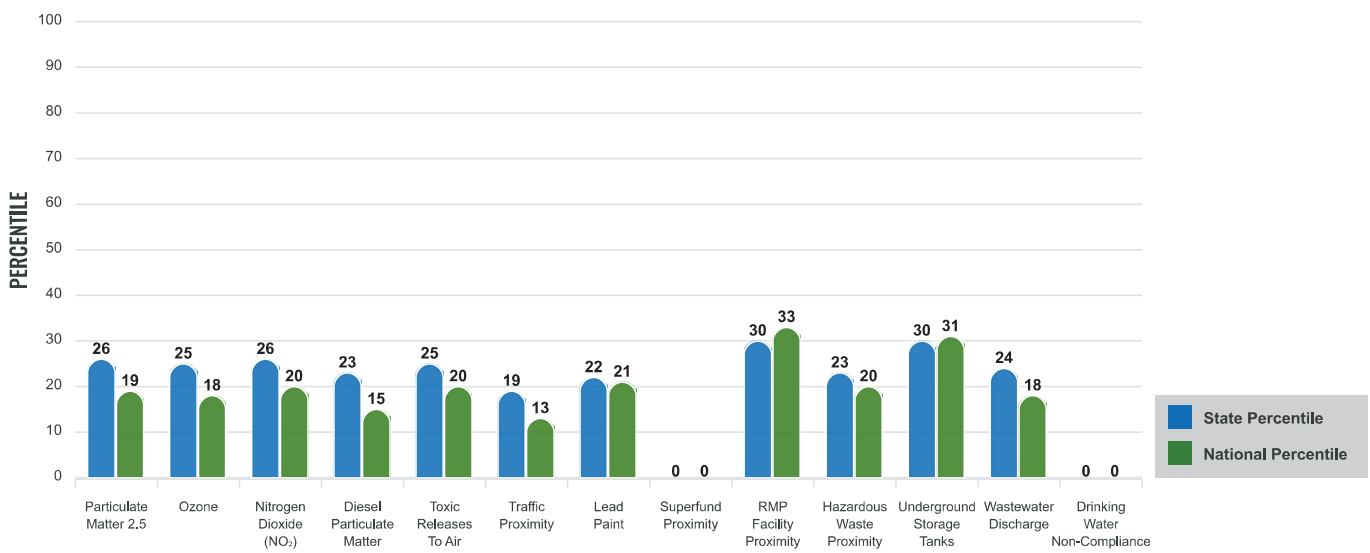
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

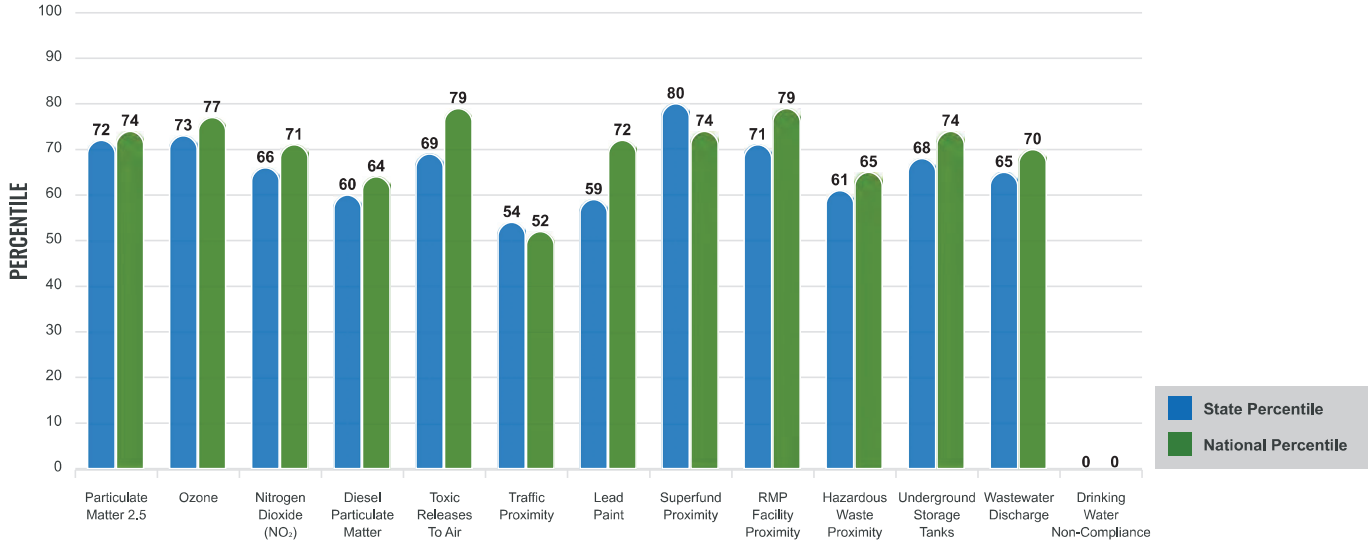
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for Blockgroup: 390170109041

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu g/m^3$)	9.61	8.17	93	8.45	84
Ozone (ppb)	46.2	44	91	41	86
Nitrogen Dioxide (NO_2) (ppbv)	11	8.5	82	7.8	80
Diesel Particulate Matter ($\mu g/m^3$)	0.205	0.177	69	0.191	65
Toxic Releases to Air (toxicity-weighted concentration)	12,000	10,000	84	4,600	94
Traffic Proximity (daily traffic count/distance to road)	890,000	960,000	58	1,700,000	51
Lead Paint (% Pre-1960 Housing)	0.68	0.44	74	0.3	85
Superfund Proximity (site count/km distance)	0.28	0.14	88	0.39	75
RMP Facility Proximity (facility count/km distance)	2.7	0.7	95	0.57	97
Hazardous Waste Proximity (facility count/km distance)	2.9	2.3	71	3.5	67
Underground Storage Tanks (count/km^2)	8.2	2.8	90	3.6	87
Wastewater Discharge (toxicity-weighted concentration/m distance)	2000	2500	83	700000	78
Drinking Water Non-Compliance (points)	0	0.77	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	0.16	N/A	N/A	1.34	2
Supplemental Demographic Index USA	1.36	N/A	N/A	1.64	38
Demographic Index State	0.18	1.2	2	N/A	N/A
Supplemental Demographic Index State	1.07	1.46	31	N/A	N/A
People of Color	6%	24%	27	40%	13
Low Income	3%	33%	3	30%	5
Unemployment Rate	0%	6%	0	6%	0
Limited English Speaking Households	0%	1%	0	5%	0
Less Than High School Education	6%	9%	42	11%	40
Under Age 5	0%	5%	0	5%	0
Over Age 64	22%	18%	69	18%	71

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund 0
Hazardous Waste, Treatment, Storage, and Disposal Facilities 0
Water Dischargers 0
Air Pollution 1
Brownfields 0
Toxic Release Inventory 0

Other community features within defined area:

Schools 0
Hospitals 0
Places of Worship 1

Other environmental data:

Air Non-attainment ..... Yes
Impaired Waters ..... Yes

Selected location contains American Indian Reservation Lands* ..... No
Selected location contains a "Justice40 (CEJST)" disadvantaged community ..... No
Selected location contains an EPA IRA disadvantaged community ..... No

Report for Blockgroup: 390170109041

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	25%	21%	82	20%	91
Heart Disease	7.2	6.9	58	5.8	79
Asthma	10.3	10.8	43	10.3	53
Cancer	8.2	7	81	6.4	86
Persons with Disabilities	10.1%	15%	21	13.7%	31

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	0%	7%	0	12%	0
Wildfire Risk	0%	0%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	12%	13%	54	13%	57
Lack of Health Insurance	7%	7%	67	9%	54
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for Blockgroup: 390170109041

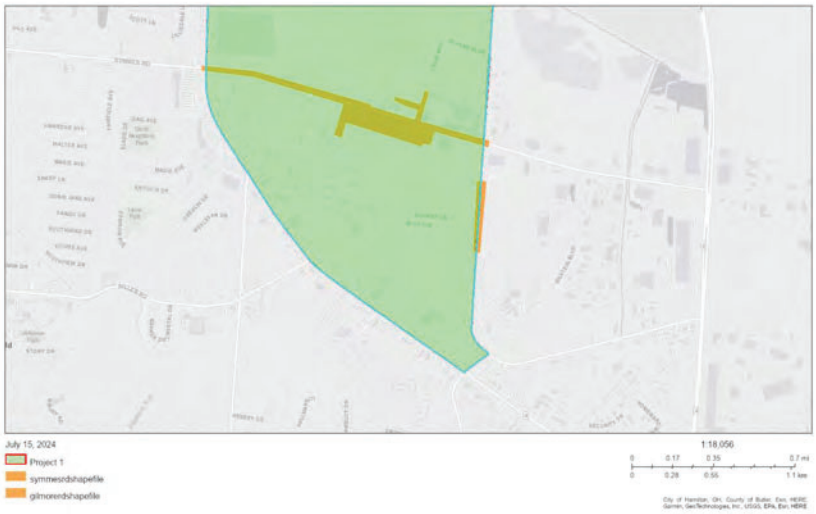
Report produced July 15, 2024 using EJScreen Version 2.3

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Fairfield, OH

Blockgroup: 390170109061
Population: 1,046
Area in square miles: 2.12



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	74%
Spanish	21%
Other and Unspecified	4%
Total Non-English	26%

COMMUNITY INFORMATION

- Low income: 83 percent
- People of color: 82 percent
- Less than high school education: 68 percent
- Limited English households: 40 percent
- Unemployment: 0 percent
- Persons with disabilities: 11 percent
- Male: 51 percent
- Female: 49 percent
- 76 years — Average life expectancy
- $15,562 — Per capita income
- Number of households: 445
- Owner occupied: 59 percent

BREAKDOWN BY RACE

- White: 18%
- Black: 0%
- American Indian: 0%
- Asian: 0%
- Hawaiian/Pacific Islander: 0%
- Other race: 0%
- Two or more races: 0%
- Hispanic: 82%

BREAKDOWN BY AGE

From Ages 1 to 4	7%
From Ages 1 to 18	47%
From Ages 18 and up	53%
From Ages 65 and up	8%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	100%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

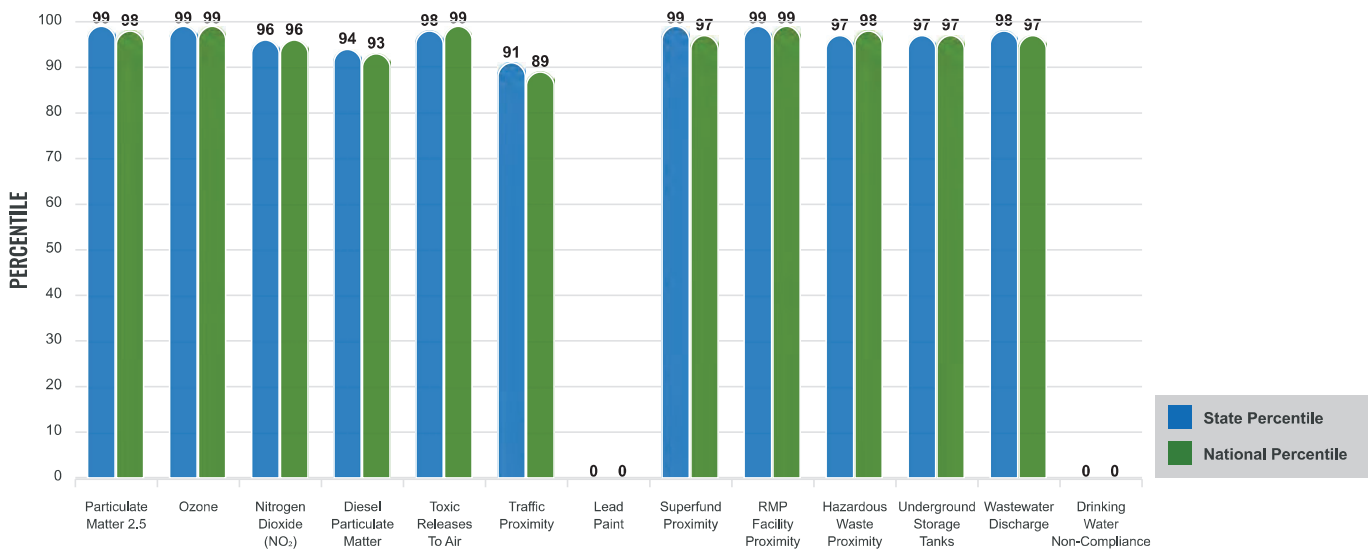
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

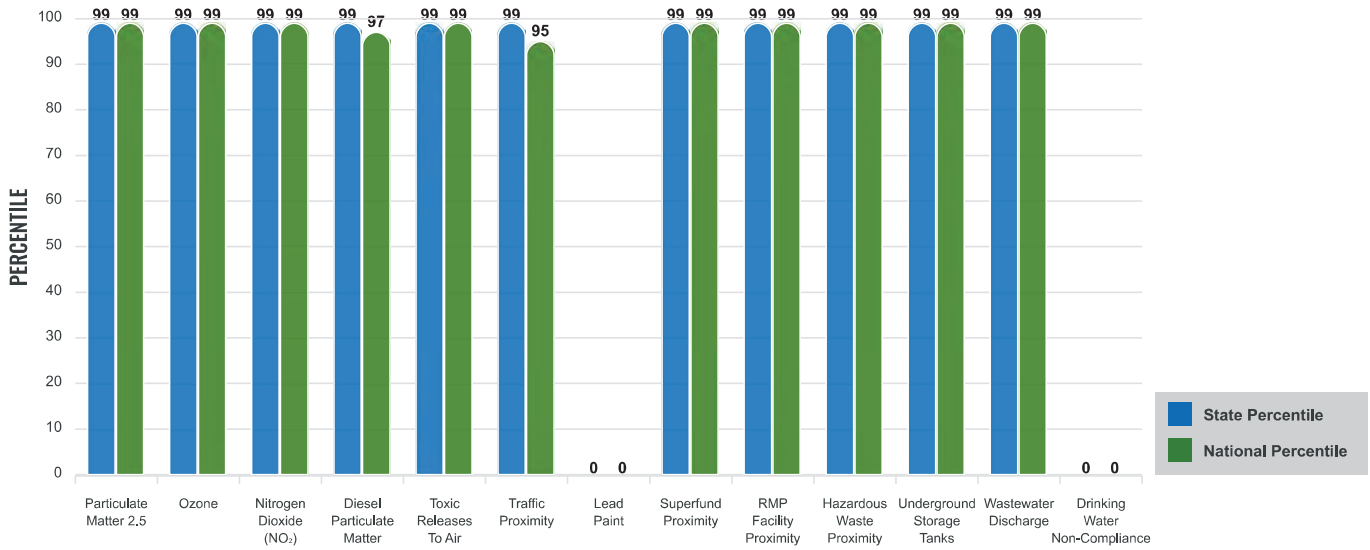
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for Blockgroup: 390170109061

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu g/m^3$)	9.64	8.17	94	8.45	84
Ozone (ppb)	46.3	44	92	41	86
Nitrogen Dioxide (NO_2) (ppbv)	11	8.5	79	7.8	78
Diesel Particulate Matter ($\mu g/m^3$)	0.205	0.177	69	0.191	65
Toxic Releases to Air (toxicity-weighted concentration)	13,000	10,000	86	4,600	94
Traffic Proximity (daily traffic count/distance to road)	1,000,000	960,000	62	1,700,000	55
Lead Paint (% Pre-1960 Housing)	0	0.44	0	0.3	0
Superfund Proximity (site count/km distance)	0.34	0.14	90	0.39	78
RMP Facility Proximity (facility count/km distance)	4.3	0.7	99	0.57	99
Hazardous Waste Proximity (facility count/km distance)	5.6	2.3	87	3.5	81
Underground Storage Tanks (count/km^2)	5.4	2.8	82	3.6	80
Wastewater Discharge (toxicity-weighted concentration/m distance)	1900	2500	83	700000	78
Drinking Water Non-Compliance (points)	0	0.77	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	3.23	N/A	N/A	1.34	97
Supplemental Demographic Index USA	3.8	N/A	N/A	1.64	98
Demographic Index State	3.44	1.2	98	N/A	N/A
Supplemental Demographic Index State	5.08	1.46	99	N/A	N/A
People of Color	82%	24%	93	40%	84
Low Income	83%	33%	97	30%	98
Unemployment Rate	0%	6%	0	6%	0
Limited English Speaking Households	40%	1%	99	5%	97
Less Than High School Education	68%	9%	99	11%	99
Under Age 5	7%	5%	72	5%	73
Over Age 64	8%	18%	13	18%	16

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund 0
Hazardous Waste, Treatment, Storage, and Disposal Facilities 1
Water Dischargers 0
Air Pollution 13
Brownfields 0
Toxic Release Inventory 6

Other community features within defined area:

Schools 2
Hospitals 0
Places of Worship 0

Other environmental data:

Air Non-attainment ..... Yes
Impaired Waters ..... Yes

Selected location contains American Indian Reservation Lands* ..... No
Selected location contains a "Justice40 (CEJST)" disadvantaged community ..... Yes
Selected location contains an EPA IRA disadvantaged community ..... Yes

Report for Blockgroup: 390170109061

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	22%	21%	61	20%	74
Heart Disease	6.4	6.9	35	5.8	65
Asthma	11.5	10.8	76	10.3	82
Cancer	5.7	7	15	6.4	34
Persons with Disabilities	11.7%	15%	32	13.7%	42

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	3%	7%	40	12%	31
Wildfire Risk	0%	0%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	16%	13%	68	13%	69
Lack of Health Insurance	8%	7%	72	9%	59
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	No	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for Blockgroup: 390170109061

Report produced July 15, 2024 using EJScreen Version 2.3

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Hamilton, OH

Blockgroup: 390170110044
Population: 2,193
Area in square miles: 3.66

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	91%
Spanish	3%
French, Haitian, or Cajun	1%
German or other West Germanic	2%
Chinese (including Mandarin, Cantonese)	1%
Tagalog (including Filipino)	1%
Other Asian and Pacific Island	1%
Other and Unspecified	1%
Total Non-English	9%

COMMUNITY INFORMATION

Low income: 36 percent
People of color: 35 percent
Less than high school education: 14 percent
Limited English households: 6 percent
Unemployment: 3 percent
Persons with disabilities: 10 percent
Male: 54 percent
Female: 46 percent
71 years
Average life expectancy
$43,813
Per capita income
Number of households: 1,128
Owner occupied: 44 percent

BREAKDOWN BY RACE

White: 65%
Black: 12%
American Indian: 0%
Asian: 3%
Hawaiian/Pacific Islander: 0%
Other race: 0%
Two or more races: 5%
Hispanic: 16%

BREAKDOWN BY AGE

From Ages 1 to 4	5%
From Ages 1 to 18	18%
From Ages 18 and up	82%
From Ages 65 and up	12%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	0%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	100%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

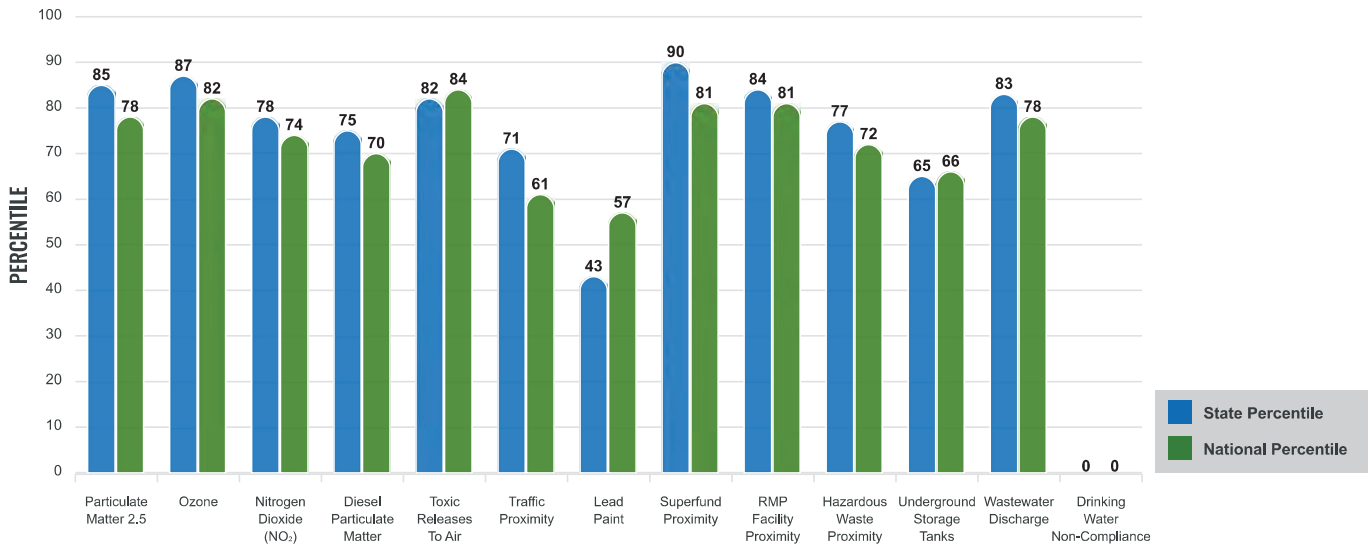
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

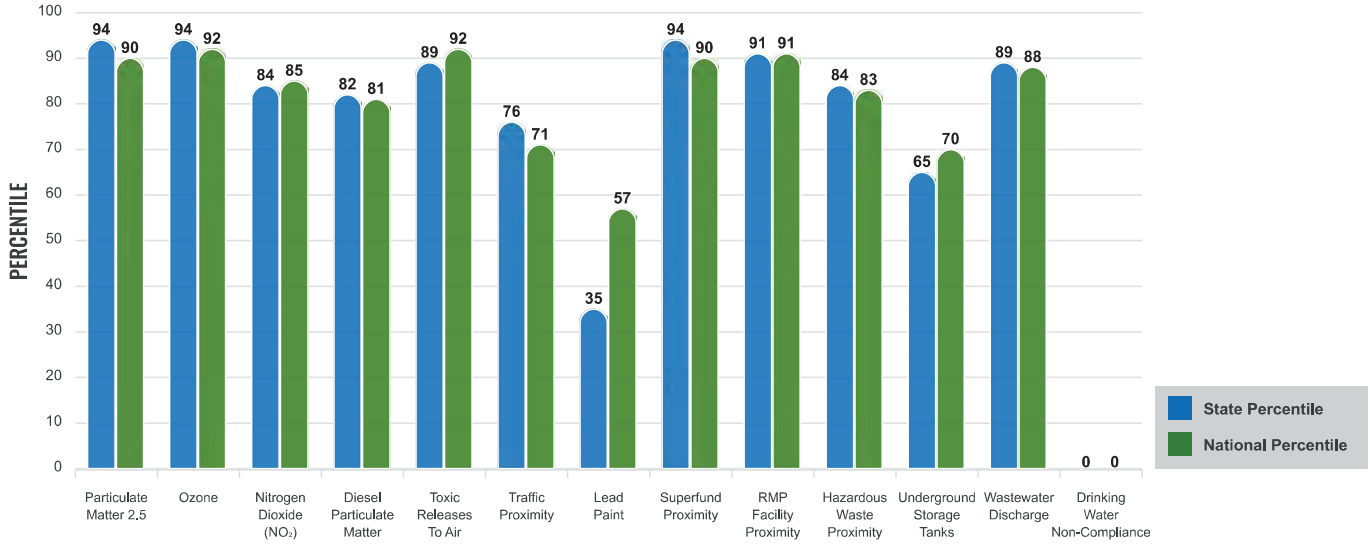
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for Blockgroup: 390170110044

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu g/m^3$)	9.64	8.17	94	8.45	84
Ozone (ppb)	46.3	44	93	41	86
Nitrogen Dioxide (NO_2) (ppbv)	10	8.5	77	7.8	77
Diesel Particulate Matter ($\mu g/m^3$)	0.204	0.177	68	0.191	65
Toxic Releases to Air (toxicity-weighted concentration)	13,000	10,000	86	4,600	94
Traffic Proximity (daily traffic count/distance to road)	860,000	960,000	57	1,700,000	51
Lead Paint (% Pre-1960 Housing)	0.15	0.44	21	0.3	42
Superfund Proximity (site count/km distance)	0.47	0.14	93	0.39	83
RMP Facility Proximity (facility count/km distance)	2.3	0.7	94	0.57	95
Hazardous Waste Proximity (facility count/km distance)	3.4	2.3	75	3.5	70
Underground Storage Tanks (count/km^2)	1.1	2.8	46	3.6	53
Wastewater Discharge (toxicity-weighted concentration/m distance)	2500	2500	85	700000	80
Drinking Water Non-Compliance (points)	0	0.77	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	1.41	N/A	N/A	1.34	60
Supplemental Demographic Index USA	2.02	N/A	N/A	1.64	74
Demographic Index State	1.49	1.2	71	N/A	N/A
Supplemental Demographic Index State	1.95	1.46	78	N/A	N/A
People of Color	35%	24%	76	40%	53
Low Income	36%	33%	62	30%	65
Unemployment Rate	3%	6%	45	6%	42
Limited English Speaking Households	6%	1%	92	5%	77
Less Than High School Education	14%	9%	77	11%	70
Under Age 5	5%	5%	52	5%	53
Over Age 64	12%	18%	29	18%	33

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	0
Air Pollution	12
Brownfields	0
Toxic Release Inventory	11

Other community features within defined area:

Schools	0
Hospitals	1
Places of Worship	0

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for Blockgroup: 390170110044

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	27%	21%	92	20%	97
Heart Disease	5.9	6.9	24	5.8	55
Asthma	11.6	10.8	77	10.3	84
Cancer	5.3	7	10	6.4	26
Persons with Disabilities	9.5%	15%	18	13.7%	26

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	5%	7%	50	12%	39
Wildfire Risk	0%	0%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	6%	13%	31	13%	37
Lack of Health Insurance	4%	7%	32	9%	28
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Report for Blockgroup: 390170110044

Report produced July 15, 2024 using EJScreen Version 2.3

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Fairfield, OH

Blockgroup: 390170109131
Population: 736
Area in square miles: 0.81

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	86%
Spanish	1%
French, Haitian, or Cajun	7%
Other Indo-European	3%
Korean	1%
Chinese (including Mandarin, Cantonese)	2%
Total Non-English	14%

COMMUNITY INFORMATION

Low income: 0 percent

People of color: 71 percent

Less than high school education: 5 percent

Limited English households: 0 percent

Unemployment: 0 percent

Persons with disabilities: 8 percent

Male: 44 percent

Female: 56 percent

80 years
Average life expectancy

$39,070
Per capita income

Number of households: 347

Owner occupied: 13 percent

BREAKDOWN BY RACE

White: 29%

Black: 55%

American Indian: 0%

Asian: 0%

Hawaiian/Pacific Islander: 0%

Other race: 0%

Two or more races: 0%

Hispanic: 16%

BREAKDOWN BY AGE

From Ages 1 to 4	18%
From Ages 1 to 18	18%
From Ages 18 and up	82%
From Ages 65 and up	16%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	0%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

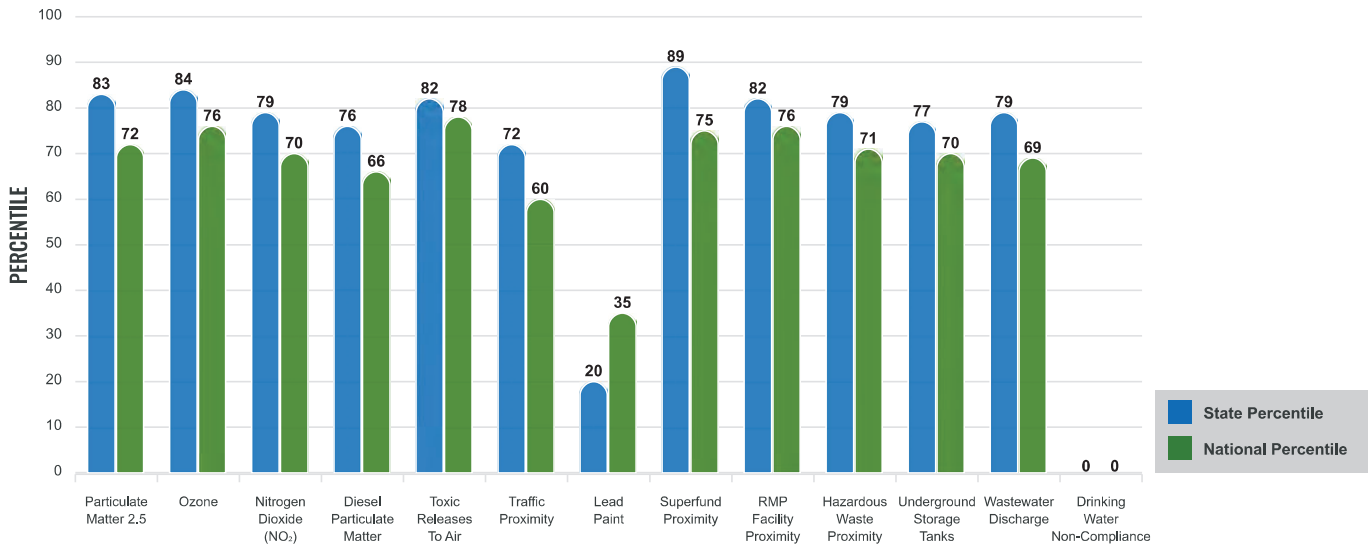
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

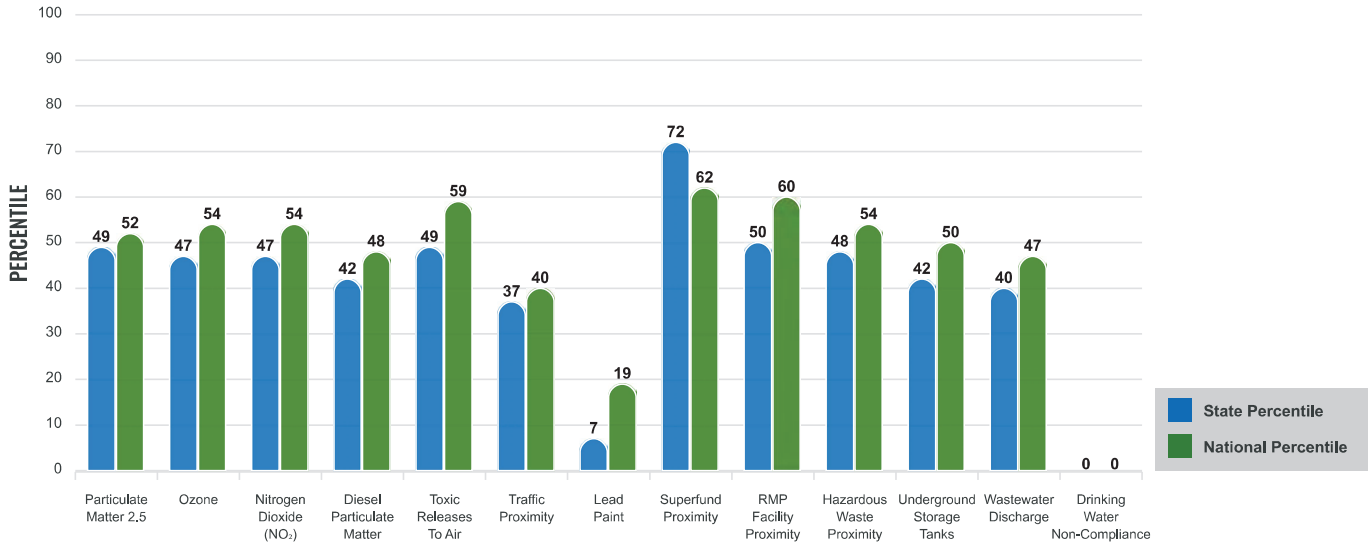
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for Blockgroup: 390170109131

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu g/m^3$)	9.69	8.17	95	8.45	85
Ozone (ppb)	46.4	44	93	41	86
Nitrogen Dioxide (NO_2) (ppbv)	12	8.5	89	7.8	85
Diesel Particulate Matter ($\mu g/m^3$)	0.232	0.177	79	0.191	72
Toxic Releases to Air (toxicity-weighted concentration)	25,000	10,000	93	4,600	96
Traffic Proximity (daily traffic count/distance to road)	1,300,000	960,000	68	1,700,000	60
Lead Paint (% Pre-1960 Housing)	0.049	0.44	9	0.3	26
Superfund Proximity (site count/km distance)	0.3	0.14	89	0.39	76
RMP Facility Proximity (facility count/km distance)	4.5	0.7	99	0.57	99
Hazardous Waste Proximity (facility count/km distance)	6.7	2.3	91	3.5	84
Underground Storage Tanks (count/km^2)	4.8	2.8	80	3.6	78
Wastewater Discharge (toxicity-weighted concentration/m distance)	1300	2500	78	700000	75
Drinking Water Non-Compliance (points)	0	0.77	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	1.13	N/A	N/A	1.34	48
Supplemental Demographic Index USA	0.86	N/A	N/A	1.64	9
Demographic Index State	1.35	1.2	67	N/A	N/A
Supplemental Demographic Index State	0.58	1.46	6	N/A	N/A
People of Color	71%	24%	90	40%	78
Low Income	0%	33%	0	30%	0
Unemployment Rate	0%	6%	0	6%	0
Limited English Speaking Households	0%	1%	0	5%	0
Less Than High School Education	5%	9%	37	11%	35
Under Age 5	18%	5%	98	5%	98
Over Age 64	16%	18%	46	18%	50

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	0
Air Pollution	5
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	3
Hospitals	0
Places of Worship	0

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for Blockgroup: 390170109131

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	21%	17	20%	31
Heart Disease	4.5	6.9	8	5.8	25
Asthma	10.4	10.8	47	10.3	56
Cancer	5.7	7	15	6.4	34
Persons with Disabilities	7.8%	15%	9	13.7%	15

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	4%	7%	47	12%	37
Wildfire Risk	0%	0%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	0%	13%	0	13%	0
Lack of Health Insurance	11%	7%	86	9%	72
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for Blockgroup: 390170109131

Report produced July 15, 2024 using EJScreen Version 2.3