US Army Corps
of Engineers ®
St. Paul District

Appendix F

Upper St. Anthony Falls Lock and Dam

Section 216 Disposition Study

Draft Integrated Disposition Report and
Environmental Assessment

Environmental Justice

December 2020

Appendix F

1   EJ Screen

Below are results of a query of the EPAs Environmental Justice Screening and Mapping Tool conducted in May, 2020 for the USAF Disposition Study to identify potential EJ communities in the project study area.

1.1 Environmental Indicators

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	92	83	72
EJ Index for Ozone	92	83	71
EJ Index for NATA* Diesel PM	94	88	80
EJ Index for NATA* Air Toxics Cancer Risk	92	86	72
EJ Index for NATA* Respiratory Hazard Index	93	87	73
EJ Index for Traffic Proximity and Volume	98	97	93
EJ Index for Lead Paint Indicator	92	84	80
EJ Index for Superfund Proximity	96	98	95
EJ Index for RMP Proximity	92	87	82
EJ Index for Hazardous Waste Proximity	97	96	92
EJ Index for Wastewater Discharge Indicator	93	87	84

Source: https://www.epa.gov/ejscreen; accessed May 11, 2020.

1.2 Environmental Indicator Details and Demographic Indicators

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in µg/m³)	7.47	6.68	93	8.63	15	8.3	26
Ozone (ppb)	35.6	36.2	18	43.4	2	43	12
NATA* Diesel PM (µg/m³)	0.783	0.333	98	0.446	80-90th	0.479	80-90th
NATA* Cancer Risk (lifetime risk per million)	31	24	89	26	80-90th	32	<50th
NATA* Respiratory Hazard Index	0.45	0.31	94	0.34	80-90th	0.44	50-60th
Traffic Proximity and Volume (daily traffic count/distance to road)	2300	440	95	530	95	750	92
Lead Paint Indicator (% Pre-1960 Housing)	0.54	0.31	78	0.38	70	0.28	79
Superfund Proximity (site count/km distance)	0.62	0.18	93	0.13	96	0.13	96
RMP Proximity (facility count/km distance)	1.2	0.76	79	0.82	78	0.74	81
Hazardous Waste Proximity (facility count/km distance)	7.8	1.2	97	1.5	97	4	94
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	0.00063	0.27	73	0.82	54	14	63
Demographic Indicators							
Demographic Index	49%	22%	91	28%	83	36%	72
Minority Population	48%	19%	90	25%	82	39%	65
Low Income Population	48%	25%	88	31%	79	33%	76
Linguistically Isolated Population	8%	2%	90	2%	90	4%	81
Population With Less Than High School Education	14%	7%	86	10%	74	13%	64
Population Under 5 years of age	7%	6%	56	6%	60	6%	58
Population over 64 years of age	8%	15%	22	15%	19	15%	22

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: https://www.epa.gov/national-air-toxics-assessment.

1.3 Minority Populations
Note: Population blocks of minority populations greater than 50% would constitute an EJ population (Andrew Perez, Corps of Engineers, New Orleands, pers. comm). The map below suggest a mixture of populations, and would not qualify as an EJ population.
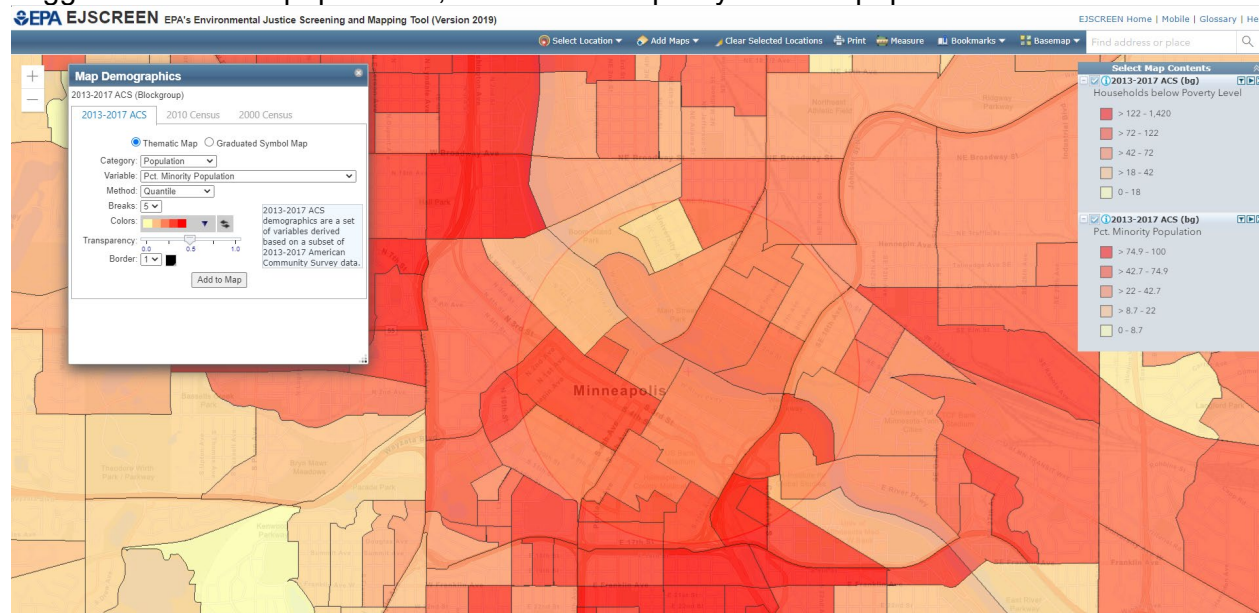
1.4 Low-Income Populations

Note: Population blocks of low income households greater than 20% would constitute an EJ population (Andrew Perez, Corps of Engineers, New Orleands, pers. comm). The map below suggest a mixture of income households, and would not qualify as an EJ population.
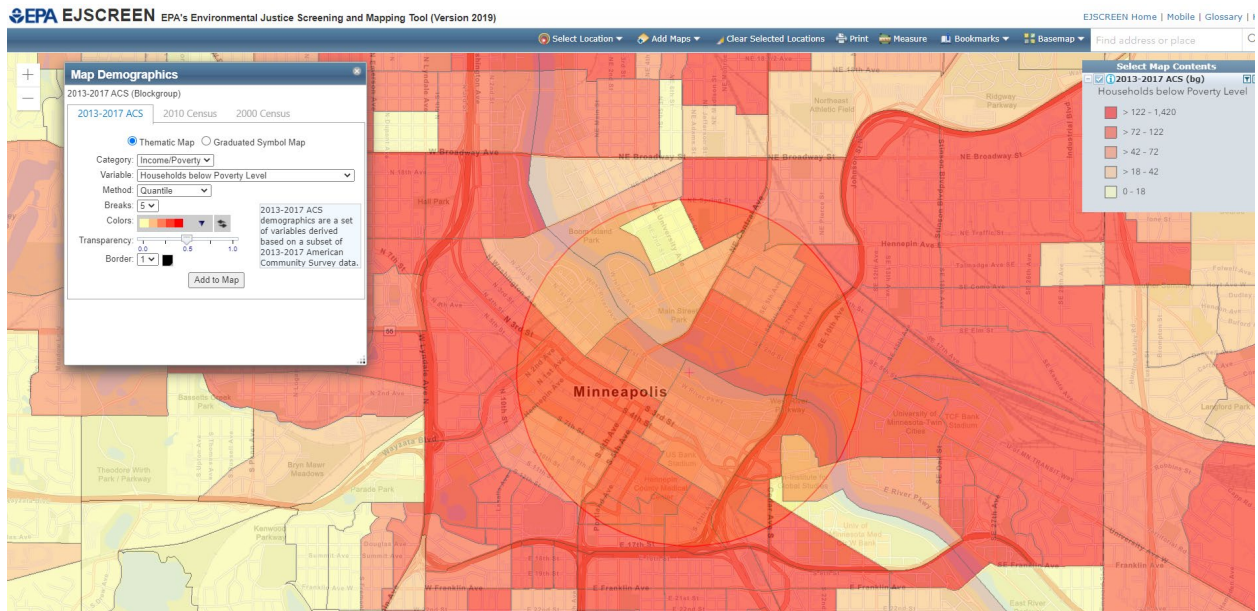
References

U.S. Environmental Protection Agency. Environmental Justice Screening and Mapping Tool. 2020. https://ejscreen.epa.gov/mapper/. Accessed May 29, 2020.