

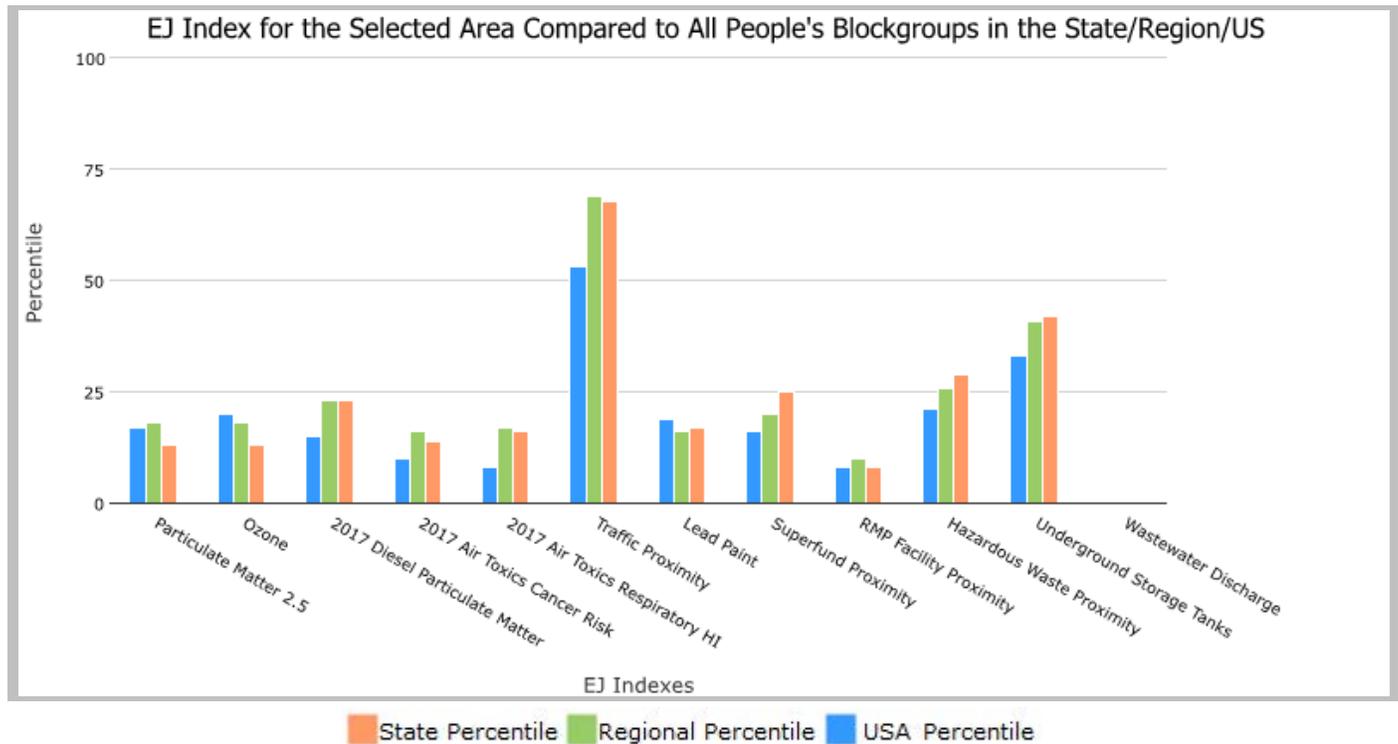
Appendix E. EPA's EJScreen Reports for the Intalco SO₂ Nonattainment Area and Whatcom County

the User Specified Area, WASHINGTON, EPA Region 10

Approximate Population: 22

Input Area (sq. miles): 4.37

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	13	18	17
EJ Index for Ozone	13	18	20
EJ Index for 2017 Diesel Particulate Matter*	23	23	15
EJ Index for 2017 Air Toxics Cancer Risk*	14	16	10
EJ Index for 2017 Air Toxics Respiratory HI*	16	17	8
EJ Index for Traffic Proximity	68	69	53
EJ Index for Lead Paint	17	16	19
EJ Index for Superfund Proximity	25	20	16
EJ Index for RMP Facility Proximity	8	10	8
EJ Index for Hazardous Waste Proximity	29	26	21
EJ Index for Underground Storage Tanks	42	41	33
EJ Index for Wastewater Discharge	N/A	N/A	N/A



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

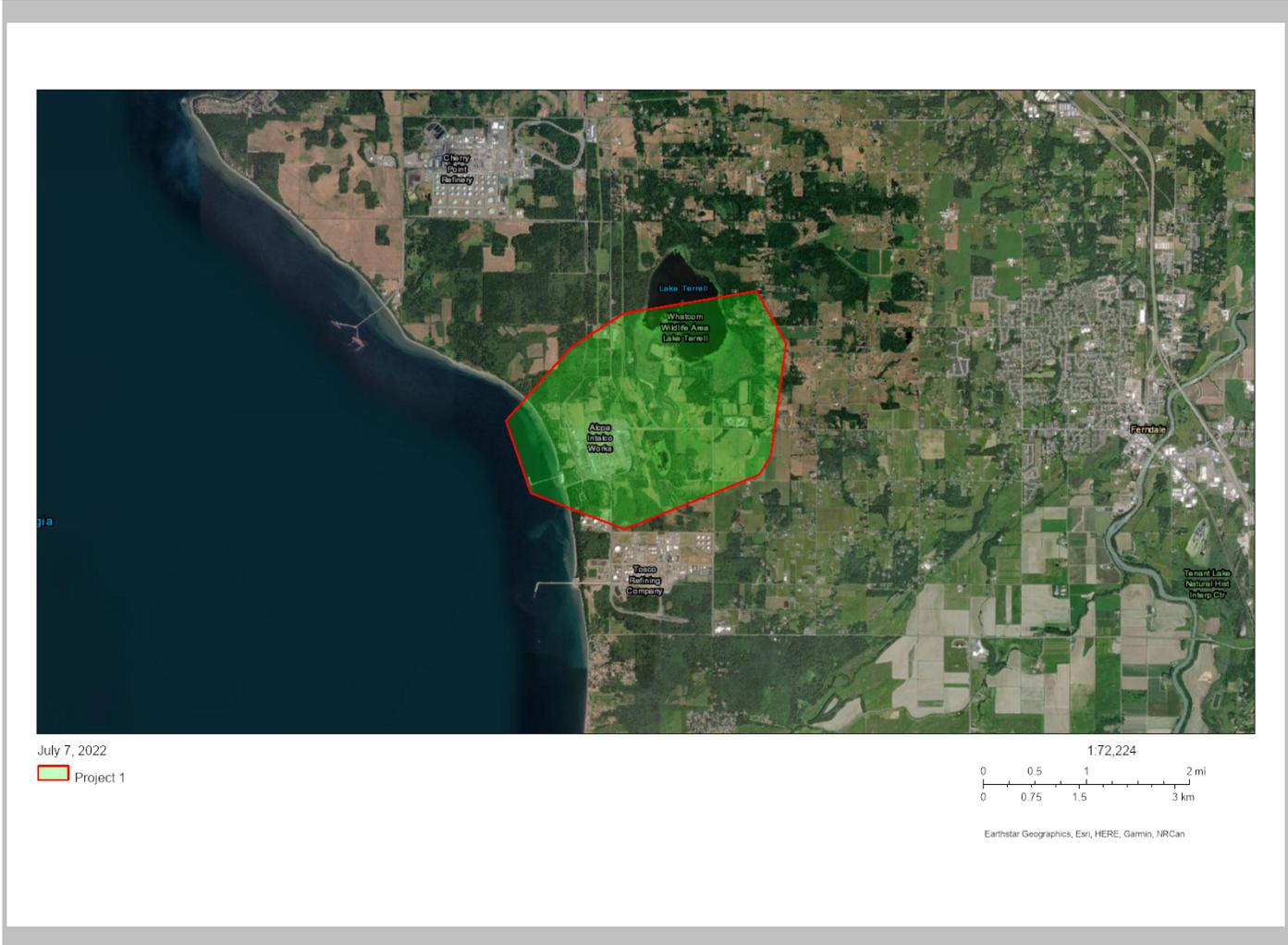
EJScreen Report (Version 2.0)



the User Specified Area, WASHINGTON, EPA Region 10

Approximate Population: 22

Input Area (sq. miles): 4.37



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	1

EJScreen Report (Version 2.0)

the User Specified Area, WASHINGTON, EPA Region 10

Approximate Population: 22
Input Area (sq. miles): 4.37

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	6.88	7.86	17	8.17	16	8.74	11
Ozone (ppb)	31.4	35.3	18	37.2	11	42.6	4
2017 Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.201	0.336	31	0.312	<50th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	35	47	33	50-60th	29	80-90th
2017 Air Toxics Respiratory HI*	0.4	0.52	31	0.47	<50th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	1.6	710	3	600	3	710	2
Lead Paint (% Pre-1960 Housing)	0.14	0.22	52	0.22	52	0.28	45
Superfund Proximity (site count/km distance)	0.063	0.19	36	0.13	50	0.13	50
RMP Facility Proximity (facility count/km distance)	0.56	0.65	66	0.66	66	0.75	62
Hazardous Waste Proximity (facility count/km distance)	0.42	2.2	37	1.7	46	2.2	41
Underground Storage Tanks (count/km ²)	0.18	6.1	29	4.5	33	3.9	26
Wastewater Discharge (toxicity-weighted concentration/m distance)	N/A	0.021	N/A	0.53	N/A	12	N/A
Socioeconomic Indicators							
Demographic Index	19%	29%	30	28%	30	36%	27
People of Color	17%	31%	30	28%	36	40%	32
Low Income	20%	26%	45	28%	37	31%	35
Unemployment Rate	3%	5%	42	5%	40	5%	41
Linguistically Isolated	2%	4%	50	3%	56	5%	53
Less Than High School Education	4%	9%	36	9%	33	12%	26
Under Age 5	4%	6%	30	6%	30	6%	31
Over Age 64	20%	15%	77	16%	75	16%	75

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 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. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.



Go Back to Topic Selection



Environmental Health
Disparities V 1.1



Environmental
Exposures



Environmental Effects



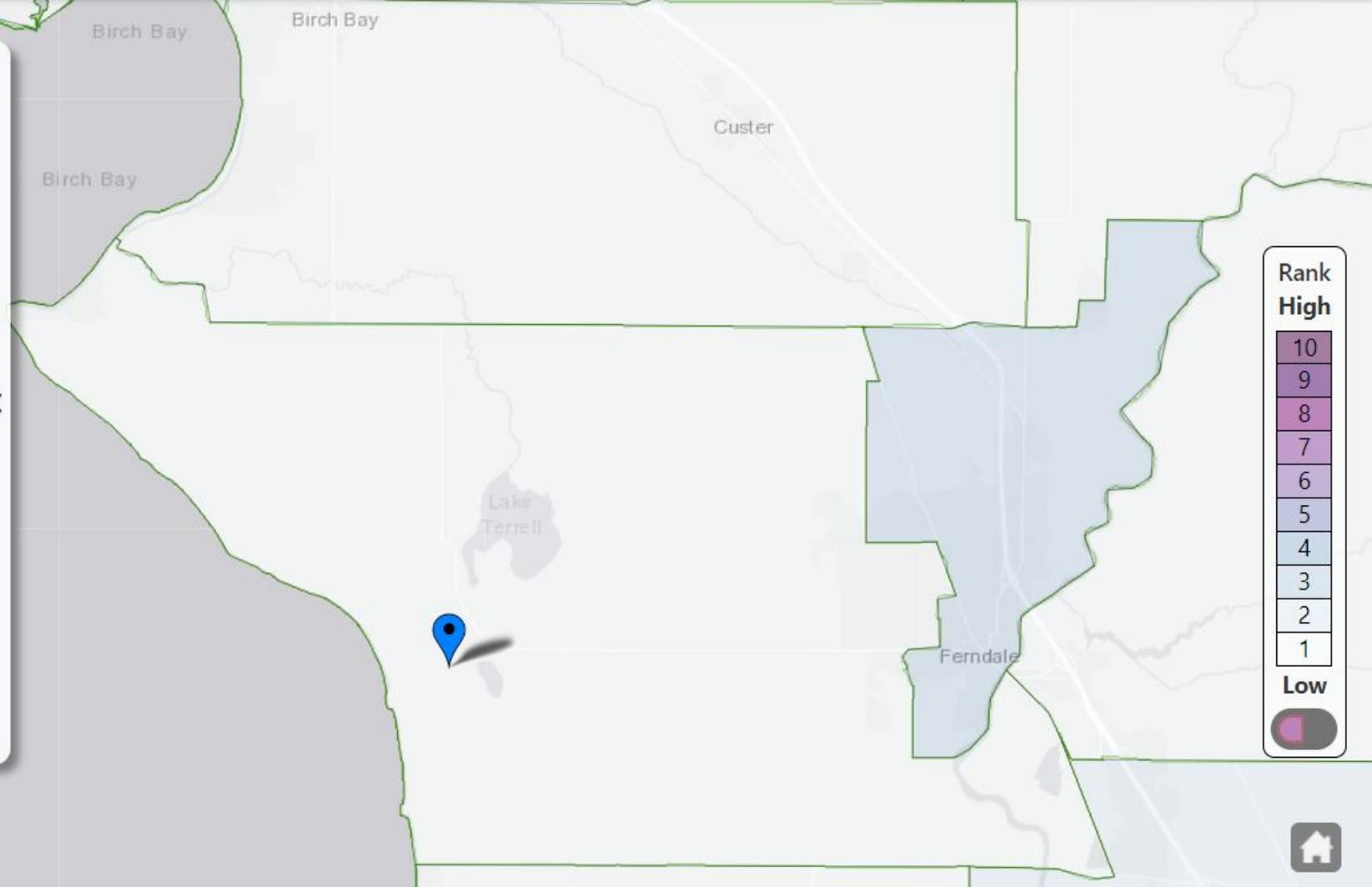
Socioeconomic Factors



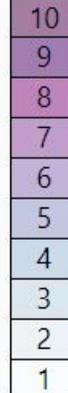
Sensitive Populations



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Rank
High



Low



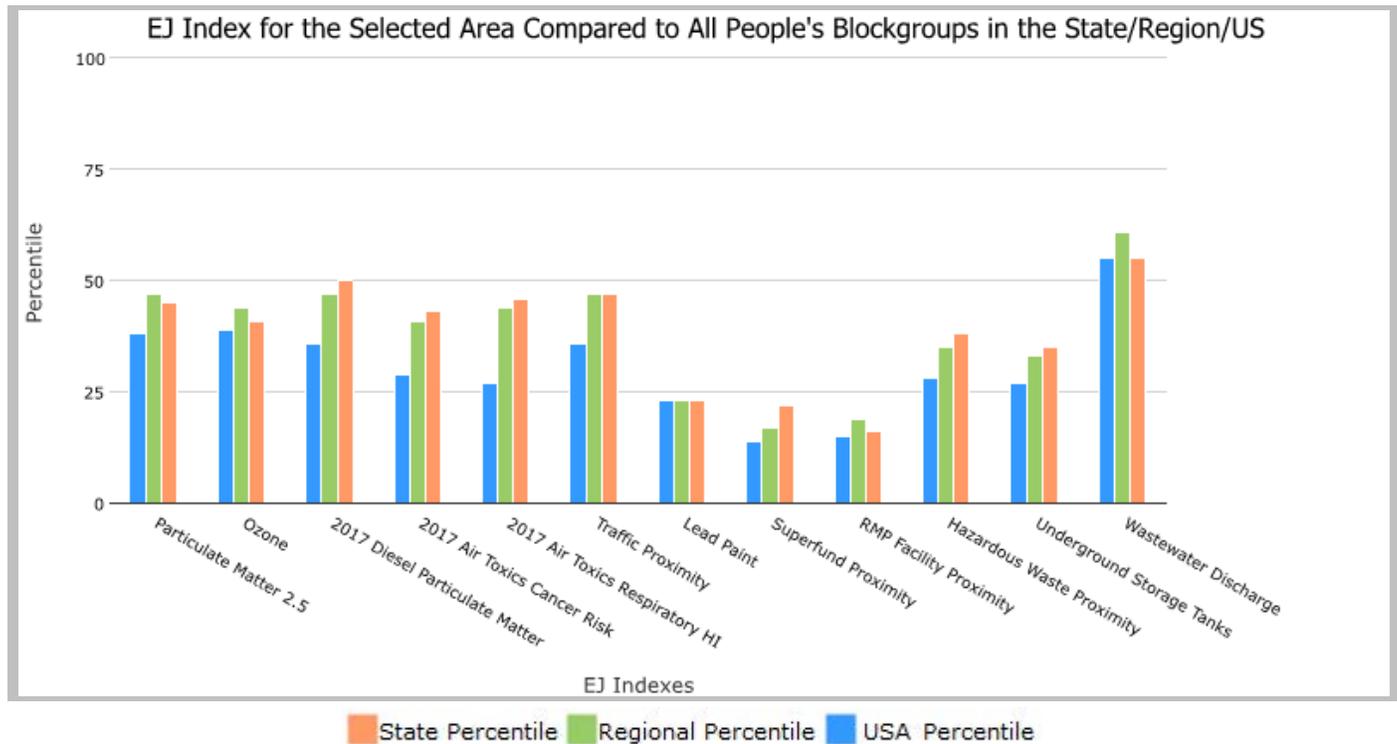
EJScreen Report (Version 2.0)

County: Whatcom, WASHINGTON, EPA Region 10

Approximate Population: 220,821

Input Area (sq. miles): 2504.86

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	45	47	38
EJ Index for Ozone	41	44	39
EJ Index for 2017 Diesel Particulate Matter*	50	47	36
EJ Index for 2017 Air Toxics Cancer Risk*	43	41	29
EJ Index for 2017 Air Toxics Respiratory HI*	46	44	27
EJ Index for Traffic Proximity	47	47	36
EJ Index for Lead Paint	23	23	23
EJ Index for Superfund Proximity	22	17	14
EJ Index for RMP Facility Proximity	16	19	15
EJ Index for Hazardous Waste Proximity	38	35	28
EJ Index for Underground Storage Tanks	35	33	27
EJ Index for Wastewater Discharge	55	61	55



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

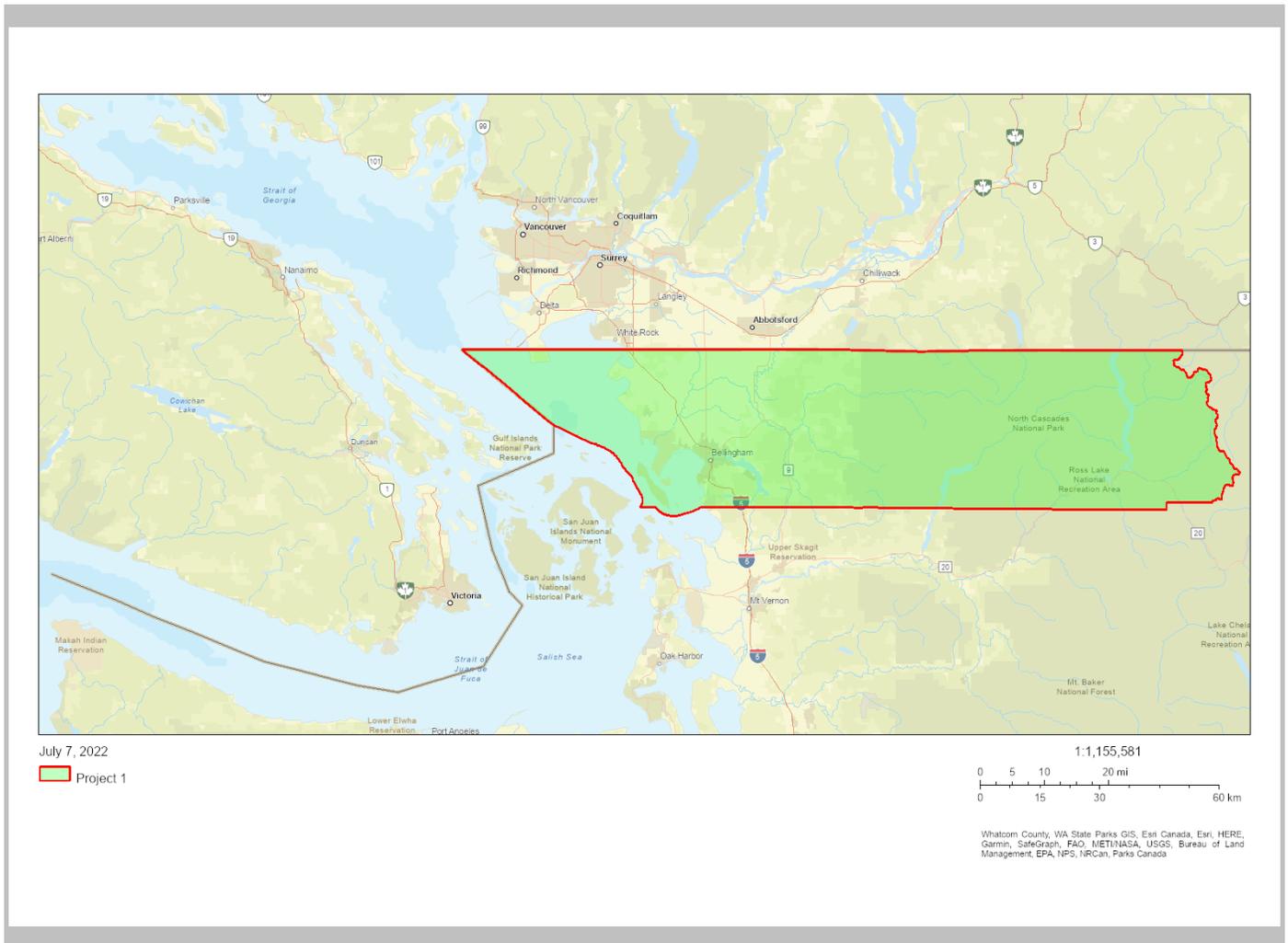
EJScreen Report (Version 2.0)



County: Whatcom, WASHINGTON, EPA Region 10

Approximate Population: 220,821

Input Area (sq. miles): 2504.86



Sites reporting to EPA	
Superfund NPL	1
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	15

EJScreen Report (Version 2.0)

County: Whatcom, WASHINGTON, EPA Region 10

Approximate Population: 220,821

Input Area (sq. miles): 2504.86

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	6.44	7.86	10	8.17	9	8.74	7
Ozone (ppb)	32.2	35.3	31	37.2	19	42.6	5
2017 Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.209	0.336	33	0.312	<50th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	35	47	33	50-60th	29	80-90th
2017 Air Toxics Respiratory HI*	0.41	0.52	35	0.47	<50th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	320	710	54	600	58	710	58
Lead Paint (% Pre-1960 Housing)	0.21	0.22	63	0.22	63	0.28	55
Superfund Proximity (site count/km distance)	0.17	0.19	70	0.13	80	0.13	82
RMP Facility Proximity (facility count/km distance)	1	0.65	80	0.66	79	0.75	77
Hazardous Waste Proximity (facility count/km distance)	1.6	2.2	62	1.7	70	2.2	65
Underground Storage Tanks (count/km ²)	4.9	6.1	68	4.5	74	3.9	77
Wastewater Discharge (toxicity-weighted concentration/m distance)	5.9E-06	0.021	37	0.53	29	12	15
Socioeconomic Indicators							
Demographic Index	26%	29%	53	28%	53	36%	44
People of Color	21%	31%	38	28%	45	40%	37
Low Income	31%	26%	67	28%	61	31%	55
Unemployment Rate	6%	5%	64	5%	63	5%	63
Linguistically Isolated	2%	4%	51	3%	56	5%	53
Less Than High School Education	7%	9%	55	9%	52	12%	42
Under Age 5	5%	6%	45	6%	45	6%	46
Over Age 64	17%	15%	65	16%	63	16%	62

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 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. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

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