

Impact Summary

Greening the Green-Duwamish at Mullen Slough
Kent, WA
King County



Project Goals

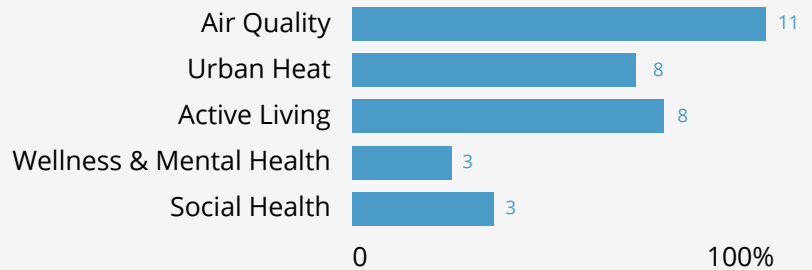
King County revegetated four acres at the mouth of Mullen Slough and along the mainstem of the Green-Duwamish River with 6,600 native trees, shrubs, and groundcovers to improve habitat for endangered salmon. In addition to riparian habitat benefits, these trees will help improve the health of the community by cooling surrounding urban areas, reducing stormwater runoff into the river, cleaning the air, and creating a more beautiful place to recreate for nearby residents. Learn more about revegetation efforts along the Green-Duwamish River at www.greenthegreen.org.



Human Health



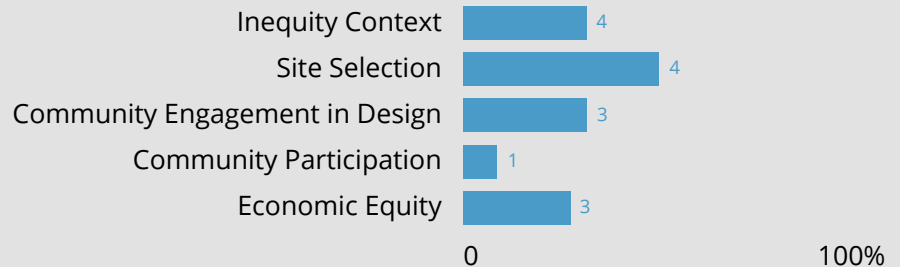
33/50
Excellent



Social Equity



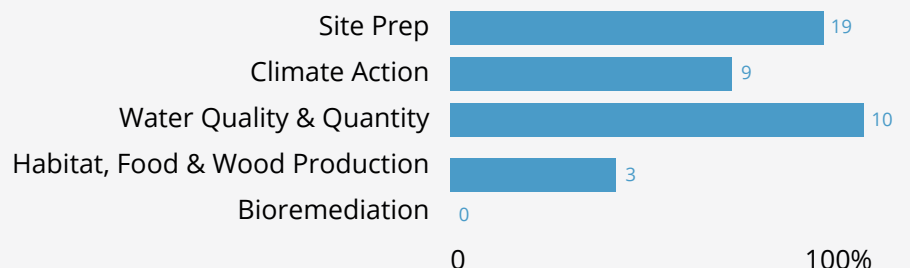
15/50
Good



Environment



41/50
Exceptional



Impact Summary

Greening the Green-Duwamish at Mullen Slough



Credits: King County

Reforestation for endangered salmon

King County chose the site for several reasons, but primarily to plant trees to provide long-term shade. The Muckleshoot Indian Tribe recommended this stretch of the river as a priority. Shade from shoreline vegetation keeps the river temperature cool during hot summer months. Salmon need cool water to spawn and rear. Trees and shrubs also provide a home for insects and bugs that feed salmon. Clean and cool water with more food equals bigger, healthier fish.

UN Sustainable Development Goals

 <p>3 GOOD HEALTH AND WELL-BEING</p>	 <p>6 CLEAN WATER AND SANITATION</p>	 <p>8 DECENT WORK AND ECONOMIC GROWTH</p>	 <p>10 REDUCED INEQUALITIES</p>	 <p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>
Improve health for nearby residents and trail users	Reduce stormwater runoff, cool the river	Support local businesses	Address health disparities, cultural importance	Promote wellness and livability
 <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>	 <p>13 CLIMATE ACTION</p>	 <p>15 LIFE ON LAND</p>	 <p>14 LIFE BELOW WATER</p>	 <p>17 PARTNERSHIPS FOR THE GOALS</p>
Reuse planting containers, reduce energy needs	Deliver local climate action, quantify benefits	Enhance wildlife corridor, increase biodiversity	Restore endangered salmon habitat	Green the Green - large restoration effort

Quantified Benefits

Projected values (avoided costs) for ecosystem benefits per year in 25 years

Carbon Sequestration
735.95 metric tons of CO2
\$18,398 (at \$25/ton)

Rain Interception
769 m3/year
\$5,648 per year

Air Quality
O3 - 0.033 t/yr
NOx - 0.011 t/yr
PM10 - 0.019 t/yr
\$33 per year

Energy Savings
Electricity - 2,247 kWh/yr
Natural Gas - 6,927 kBtu/yr
\$194 per year