



photo: DVYC

Action Plan Progress

Improving air quality, reducing rates of asthma, and additional health disparities among Duwamish Valley residents is a top priority.

Through research, community-led action, and policy all focused on reducing air pollution, the Duwamish Valley Clean Air Program participants strive to reduce a wide range of health impacts by acting on specific activities following firm accountability measures to advance climate justice and health equity in the Duwamish Valley.

Using a holistic approach, the strategies of the clean air action plan were designed in partnership with community to “turn the curve” to reduce childhood asthma hospitalization rates with specific actions and progress indicators.

Since 2020, we have brought together over 25 partners consisting of government agencies, non-profit organizations, academic institutions, and community members to engage in a 16 month Results Based Accountability (RBA) process that centers racial equity to develop the Air Action Plan to reduce asthma prevalence in the Duwamish Valley.



Reducing vehicle emissions in the Duwamish Valley

- **Puget Sound Clean Air Agency (PSCAA)** has received grant funding to replace ten diesel-fueled yard trucks in with all-electric yard trucks and supports air education with free box fan events in the Duwamish Valley. PSCAA has partnered with Villa Comunitaria for electric vehicle carshares.
- **Front & Centered** trained interested communities on transportation justice, mobility mapping, and the policy process. They were awarded \$400,000 to shape implementation of the Healthy Environment for All (HEAL) Act and create an Environmental Justice Community Participation Fund.
- **City of Seattle Office of Sustainability** has been working closely with the DRCC, African Chamber of Commerce, International Council on Clean Transportation, and community to create an equitable implementation plan to offer city funded incentives for the purchase or lease of new electric drayage trucks, including charging stations funded by Seattle City Light.
- **King County International Airport Community Coalition (KCIACC)** focused on eliminating impacts of leaded fuels in state policy and passing a county ordinance to eliminate the negative impacts King County International Airport (KCIA) has on Duwamish Valley neighbors by opposing the expansion and relocation of the airport’s leaded fuel farm to accommodate an increase in flight operations.
- **Northwest Seaport Alliance/Port of Seattle:** The Clean Truck Program and regional clean truck collaborative continue to make progress.

Reduce pollution from industry and other source emissions through existing legal means

- **Puget Sound Clean Air Agency (PSCAA)** has elevated equity and environmental justice in its strategic plan for the next 7 years.
- **Earth Justice and DRCC** continue to advocate through city, state, and federal rule making to reduce emissions from freight and transit corridors in the Duwamish Valley.
- **Western Washington University**, with Dr. Abel developed materials to teach youth about pollution disparity mapping, established a statistical rationale for moss samples, producing a “ground truth” of the antiquated air quality regulations and inflexible monitoring systems operated by clean air authorities.
- **Front & Centered** is working closely with community to develop and define the concept of “overburdened communities” for policy recommendations along with DRCC and many more!
- **The Nature Conservancy** continues to support community organizations and leaders with education and policy support to help shape the Department of Ecology’s overburdened communities’ initiative.

Improve indoor air quality in multifamily housing as well as community spaces and schools

Puget Sound Clean Air Agency (**PSCAA**) in collaboration with Duwamish River Community Coalition (DRCC) distributed:

- Duwamish River Festival, 102 filters, 45 fans
- DRCC World Asthma Day, 400 filters, 100 fans
- South Park Senior Center, 80 filters, 25 fans
- Tukwila Community Center, 150 filters, 85 fans
- Four social media smoke-ready posts, includes filter-fans
- **One Roof Foundation** supported the installation of HEPA indoor air purifiers in all 42 Concord School classrooms in collaboration with UW EDGE Center Assisted DRCC, Concord School and + maintenance & use training. Submitted grant request for indoor/outdoor air quality monitoring and low-cost filters for DV homes with children with asthma.
- **University of Washington & (UW) EDGE Center** provided ongoing assistance for indoor air filters at Concord and looks forward to launching the asthma intervention project for families with DRCC and partners.
- **American Lung Association** conducted ~26 healthy home assessments through partnerships with DRCC and community health workers.
- **Public Health Seattle King County** asthma program provides community health worker visits. Many participants also receive HEPA air filters. DRCC working with King County to grow programing in the Duwamish Valley

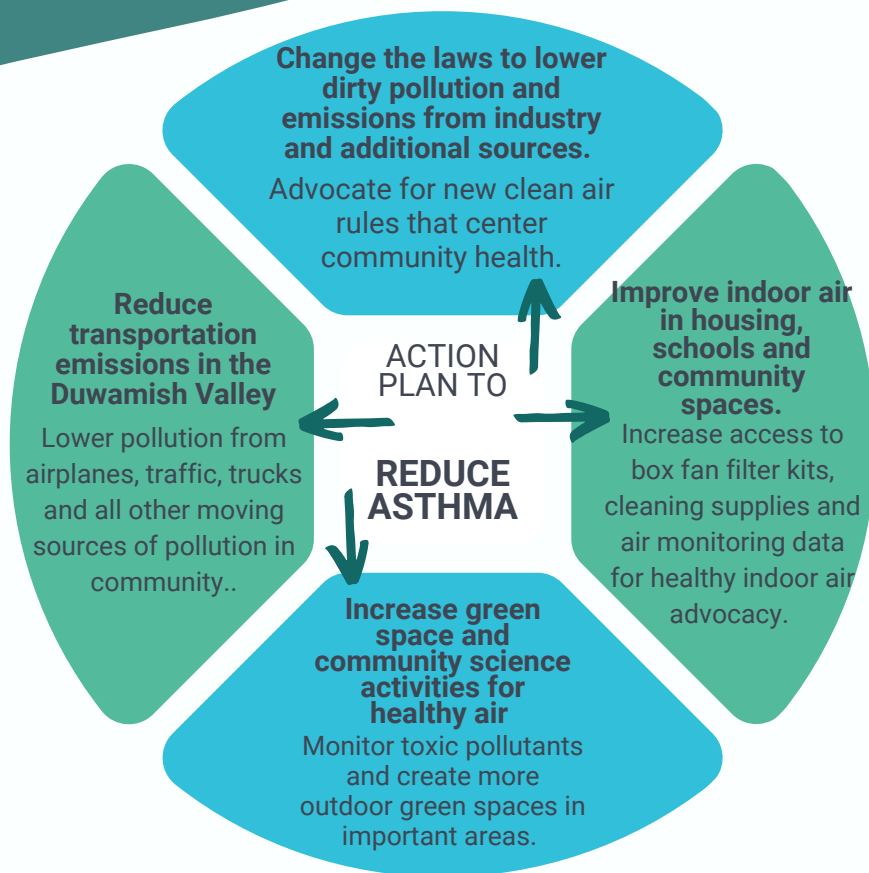
Improve outdoor air quality through physical environmental changes

- **PSCAA** completed air metals toxics (antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, mercury, selenium) samples study conducted at Seattle College Campus, Georgetown home, South Park, South Park industrial area, and Georgetown Steam Plant.
- **UW EDGE Center** conducted Ultrafine air particle (UFP) data collection in flight path neighborhoods, including DV, and SeaTac area schools. Phase 1 Healthy Air, Healthy Schools study completed data collection for effect of green infrastructure on UFP air quality ongoing.
- **City of Seattle Office of Sustainability** invested \$75,000 in maintenance of existing green infrastructure in the Duwamish Valley, \$300,000 in engagement for and implementation of greening efforts, including tree planting on private properties in the industrial areas of South Park and Georgetown, and ensuring maintenance and establishment continue in future years.
- **Seattle Parks Foundation** secured \$46K in private funding for Duwamish Valley Youth Corps & DIRT Corps tree canopy project.

Air Highlight

Seattle Iron and Metals (SIM)

The Court ruled and ordered SIM to pay \$77,000 fine to community to fund air related projects.



We would love to learn from you!

Call to Action

Please join us in upcoming community participatory Clean Air Program events and more opportunities to inform the action plan and additional ongoing efforts to advance health equity and climate justice in the Duwamish Valley!

Save the Date!

Spring 2023 Air Fair with free box fan filter kits!
Join us for this Earth and World Asthma Day event.

Upcoming Projects

Asthma Intervention Study

Together with the University of Washington and additional partners, DRCC will continue to work with families in the Duwamish Valley to find ways to reduce environmental exposures and reduce asthma hospitalization rates.

Duwamish Valley Youth Moss Study Research

Their investigation led them to hypothesize that there are previously undetected sources of metal air toxics pollution in the Duwamish Valley, and this cohort will pivot from data collection and analysis to education and policy advocacy. Stay tuned for the community factsheet!

Connect With Us

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Thank you to the Action Plan Team and Funders

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State of the Air

2022 Recap

Action Plan to Reduce Asthma



photo: DVYC