



2020 SUSTAINABILITY REPORT



INTRO

Environmental sustainability: meeting the needs of the present without compromising the ability of future generations to meet their own needs, while working to regenerate and restore the environment where it has been damaged by past practices.



This past year tested our resilience with a global health crisis, a national reckoning with racial inequality, a worsening climate crisis, and economic hardship. However, our community response has shown that we are strong, connected, and can work together to overcome challenges. At the City, we recognize that these issues are all interconnected. We must continue working to address environmental sustainability in a way that benefits everyone and strengthens our community.

Climate change was a central theme in our 2020 environmental sustainability programming, which was quickly adapted in response to the COVID-19 pandemic. The Shoreline community adapted with us and embraced new programs and online platforms. More than 300 households participated in the online Shoreline Climate Challenge, taking action to reduce both carbon emissions and utility bills. Residents from across the region attended the City's Climate Champions and Natural Yard Care webinar series, while two Shoreline neighborhood associations took advantage of a new micro-grant program to provide increased access to food for vulnerable neighbors.

This report provides an overview of the City's 2020 achievements for five core focus areas—and associated indicators—as outlined in our Sustainable Shoreline program:

- Climate, Water & Energy
- Materials, Food & Waste
- Transportation & Mobility
- Trees, Parks & Ecosystems
- Resilient Communities

To learn more about how you can be a part of a Sustainable Shoreline, visit shorelinewa.gov/sustainability. For more information about the sustainability indicators referenced in this report, please see Appendix A.



SUSTAINABLE SHORELINE



CLIMATE, WATER & ENERGY

Our Goal:

Reduce greenhouse gas emissions by reducing energy and water use.

INDICATORS		2020 STATUS UPDATE
Achieve zero net municipal greenhouse gas (GHG) emissions by 2030	Not Available	A 2016 GHG emissions inventory showed a 30% reduction in emissions from City operations, and a 2% reduction in communitywide emissions, compared to 2009. We will measure GHG emissions again in 2021.
Reduce community GHG emissions 50% by 2030 and 80% by 2050, compared to 2009		
Install solar panels to produce 200 kW of electricity by 2030	 1,867 kW of customer solar installed	This goal was met in 2019. Per Seattle City Light, customers installed a cumulative 1,867 kW of solar in Shoreline as of December 31, 2020, for an increase of 347 kW compared to 2019.
Achieve an average of 10.2 miles per gallon (MPG) for the City's vehicle fleet by 2030	9.9 MPG	Municipal fleet fuel efficiency increased from 8.7 MPG in 2016—and 7 MPG in 2019—to 9.9 MPG in 2020.
Increase the number of green residential units in the community to over 700 by 2030	~688 units	The City counted 373 total Built Green 4-Star units and 315 LEED Platinum units in 2020, for an increase of 125 units compared to 2019.
Increase square feet of certified green commercial space in Shoreline by 33% by 2030	 904,793 sq ft (35% increase)	This goal was met in 2019. No new certified green commercial spaces were added in 2020.
Keep per capita water use at the 2010 level of 19,000 gallons per resident per year	Not Available	Both Seattle Public Utilities and North City Water District reported in 2019 that they are no longer able to provide Shoreline-specific community water use data for completing this calculation.

SHORELINE CLIMATE CHALLENGE

From late June to October, over 300 households participated in the Shoreline Climate Challenge. The online Challenge encouraged residents to take action to fight climate change, save money, and improve their health and comfort. Shoreline residents completed more than 1,000 actions that reduce air pollution, conserve water, reduce waste, lower utility bills, and support local green jobs. Together, these actions helped reduce 239 tons of annual carbon emissions and saved residents over \$60,000!

We provided a reusable coffee thermos to households that signed up and completed at least one action in the Challenge. The Shoreline



SHORELINE Climate Challenge

Chamber of Commerce also donated a generous \$100 gift card for households that earned at least 5,000 points. Congratulations to the recipient, Jeff Aurand! At a November City Council meeting, the Council recognized the teams, community groups, and neighborhoods that earned the most points for completing actions.

"We've been having so much fun with the Climate Challenge, spurring engaging conversations with each other and with neighbors. Such a great idea of encouraging community engagement!"

—Deb "Climatey Jane" Todd,
Team Baha'is of Shoreline



TOP TEAMS	TOP COMMUNITY GROUPS	TOP NEIGHBORHOODS
<ol style="list-style-type: none"> 1. Baha'is of Shoreline 2. Meridian Park Neighborhood Team 3. Shoreline Community Services 	<ol style="list-style-type: none"> 1. Shoreline City Staff Group 2. Meridian Park Community Neighborhood Group 3. Briarcrest 	<ol style="list-style-type: none"> 1. Parkwood 2. Highland Terrace 3. Meridian Park

The Shoreline Climate Challenge is a powerful way for us all to stay connected and focused on collective climate action. You can still sign up, share tips and resources with other community members on the site, and learn about rebates and incentives to help you save money, improve the comfort of your home, and reduce your carbon footprint. Learn more and take action at ShorelineClimateChallenge.org.

CLIMATE CHAMPIONS SERIES

The City partnered with Washington State University to offer a free, seven-week climate change education and action series in the fall. Approximately 150 people participated in the series, which featured discussions on various aspects of climate action, including transportation choices, energy conservation, renewable energy, sustainable food choices, zero

Join the Shoreline Climate Challenge to reduce your impact, save money and help create a cleaner, healthier future!

[JOIN THE CHALLENGE](#)

[WHY JOIN? →](#)

250

PROGRESS
305 HOMES

HOUSEHOLDS BY
NOVEMBER 2020
PARTICIPATION GOAL

150

PROGRESS
159%

TONS OF CO2 BY
NOVEMBER 2020
REDUCTION GOAL

1,036

ACTIONS COMPLETED

171

ACTIONS COMMITTED

\$60,686

DOLLARS SAVED



waste lifestyle tips, and the need to incorporate equity with climate action planning and programs. You can view recordings of most sessions at shorelinewa.gov/climate.

GREEN BUILDING PROGRAMS

In 2015, the City created the Mixed-Use Residential (MUR) zoning districts for the light rail station subareas, mandating that any new building construction in the MURs achieve at least a Built Green 4-Star Level. In 2020, there were 19 new building permit applications for projects in the Station Areas registering under Built Green 4-Star certification. This amounts to 158 new dwelling units, with about half as multifamily/apartment units and the remainder as townhome units.

The City also offers a Deep Green Incentive Program (DGIP), which gives developers who build green access to increased density, taller buildings, and reduced fees. The DGIP applies to development projects that register with a third-party certification entity, such as the International Living Future Institute, Built Green, U.S. Green Building Council, Passive House Institute US, or Salmon-Safe. Read more about the DGIP in this [updated brochure](#) developed in 2020. Over the last year, two projects registered under the DGIP, both of which are large multifamily projects along

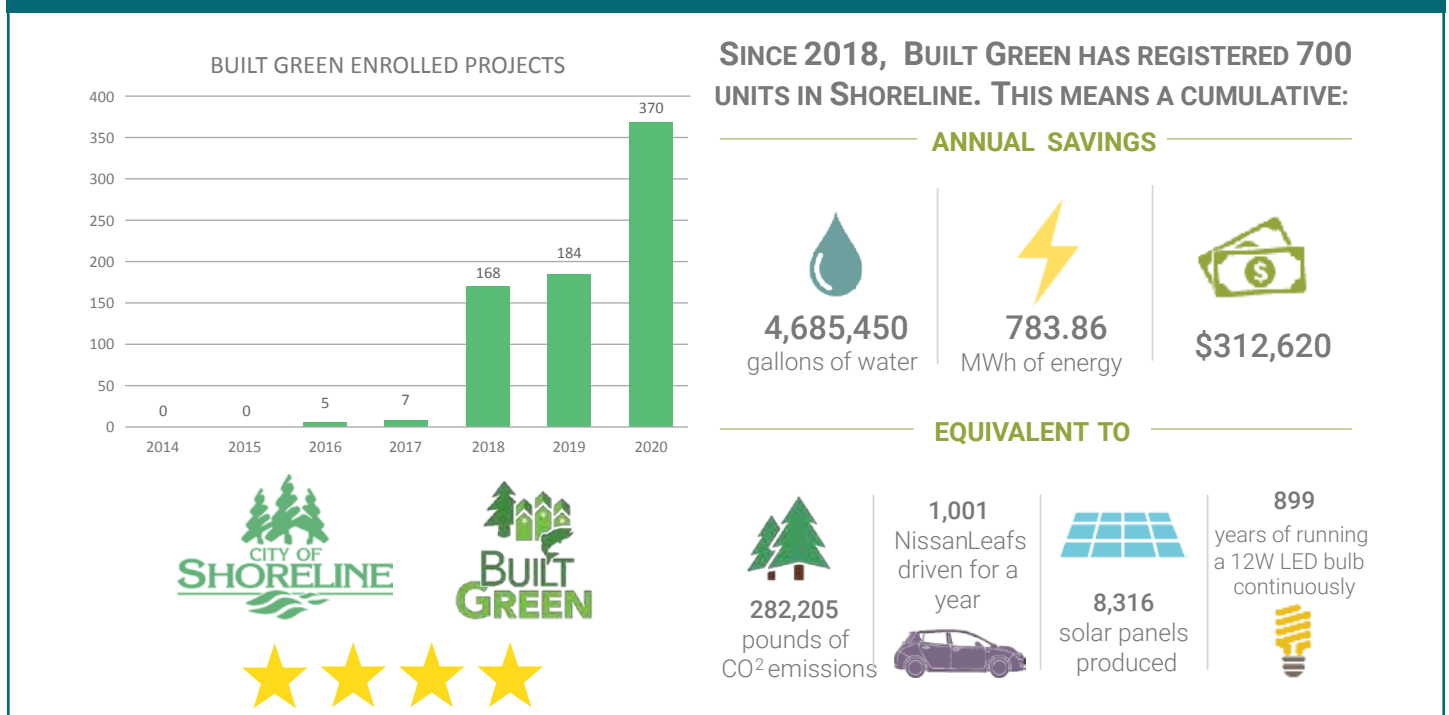
the Aurora corridor. One project registered under Built Green 4-Star certification with 215 units, and the other under LEED Platinum with 315 units. Both projects were nearing the completion of the permit review process and about to begin construction in early 2021.

KING COUNTY-CITIES CLIMATE COLLABORATION

As a member of the King County-Cities Climate Collaboration (K4C), the City is one of 17 partners working with the County to reduce community GHG emissions 80% by 2050. The broad partnership represented by the K4C is virtually unprecedented nationwide. Many recognize it as a very effective means by which to organize multijurisdictional GHG reduction work.

In 2020, the City adopted a resolution in support of the updated K4C Joint County-City Climate Commitments. The updated Commitments reflect recent changes in state law, updated science and GHG inventories, and updated K4C membership since partners signed the original 2014 Commitments. This voluntary action reaffirms the City's ongoing commitment to mitigate climate change both as an individual city and in collaboration with fellow K4C partners. [Learn more about current and past K4C activities.](#)

Figure 1: Built Green Enrolled Projects



2020 SOLAR INCENTIVE

The solar panels at City Hall generated 2,1331 kWh from July 1, 2019, through June 30, 2020 and earned \$5,000 in the final year of the Washington State Renewable Energy Cost Recovery Incentive Program (RECRIP). A pioneer in the Washington State renewable energy economy, the City received over \$43,000 in payments for renewable energy generated at City Hall while RECRIP was active.

WATER CONSERVATION IN PARKS

Approximately three years ago, Parks staff instituted a water reduction plan. The plan limits irrigation to essential amenity zones, such as where weddings and rentals occur, and certain safety amenity zones, such as athletic fields where we need safe turf surfacing. Parks staff worked to reduce water utility costs by \$30,000 in 2020. To accomplish this goal, they did not turn on irrigation at Park facilities until mid-June and stopped all irrigation at the end of August. In addition, Richmond Beach Community Park did not receive any irrigation in 2020.

WATER CONSERVATION WITH GROUNDS MAINTENANCE

Grounds Maintenance crews repaired leaky fittings and irrigation line breaks to reduce water use along the Aurora corridor in 2019. In 2020, they installed Toro Sentinel software to program irrigation timers based on previous observations about correct watering cycles. Once flow sensors are fully functional, staff will be able to see how much water we are using per cycle and adjust the programs even

Green Building in Shoreline

The U.S. Green Building Council (USGBC) awarded Shoreline Community College LEED Silver certification in 2020 for the College's student residence hall, 7000 Campus Living, which opened in fall 2019. The LEED certification system is the most widely used green building rating system in the world. USGBC only awards certification to buildings constructed and operated at the highest levels of sustainability. The residence hall includes practical and measurable sustainability features, such as water savings, enhanced thermal performance, a roof-top solar array, and energy-efficient LED lighting throughout the building.

The new Einstein Middle School in Shoreline also incorporates sustainable features, including solar panels that provided 80% of electrical needs during construction. The School District expects the panels to provide 20-25% of the school's electricity moving forward. The District also installed large underground tanks at the school to store rainwater runoff from the site and slowly release it into the city's drainage system, helping reduce pollution in Puget Sound.



more. The software allows staff to set high flow alarms and parameters that would shut the system down if there is a major break in the irrigation line. Grounds Maintenance staff will continue to assess water use and conservation efforts at City properties.

MATERIALS, FOOD AND WASTE

Our Goal:
Reduce solid waste and promote sustainable consumption.

INDICATORS	2020 STATUS UPDATE	
Divert 70% of waste generated in the Shoreline community from the landfill	50% diversion rate	Overall diversion rates in Shoreline increased from 44% in 2016 to 50% in 2020, up 2% compared to 2019. That means that more of the waste generated in our community was recycled or composted instead of going to the landfill.

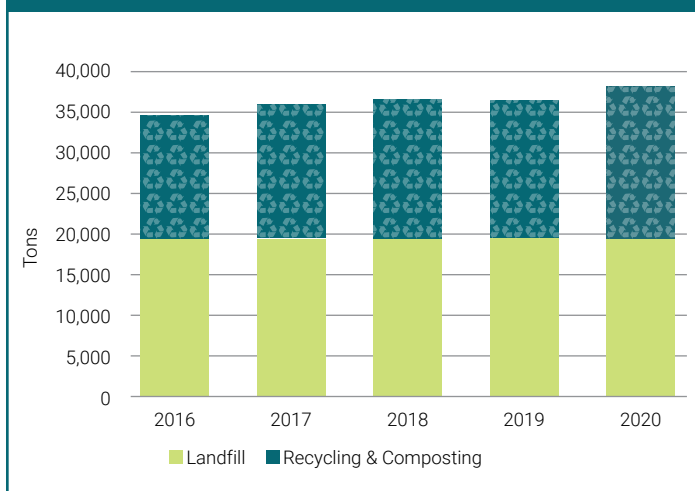
WASTE METRICS

Shoreline residents and businesses generated over 37,958 tons of waste in 2020, which was 1,203 tons (3%) more waste than measured in 2019. We were able to recycle or compost approximately 50% of that waste and divert it from the landfill. That is slightly up from 48% in 2019. Diversion rates for both single-family households (64%) and multifamily customers (25%) remained steady, while the amount of waste diverted from the landfill by businesses increased from 24% in 2019 to 27% in 2020. Despite that improvement, and targeted efforts to improve recycling and compost practices, we did not meet our goal to divert 70% of citywide waste from the landfill by the end of 2020.

We need your help!

1. Reduce the amount of waste you create. 40% of all the plastic produced each year is made for just one purpose: single-use packaging. Choose products with less packaging—for example, loose lettuce vs. lettuce in a plastic container, buy in bulk and use reusable containers. Explore more waste reduction ideas at ShorelineClimateChallenge.org.
2. Reuse items whenever possible.
3. Recycle and compost correctly and consistently. Our local landfill space is limited. King County anticipates that the Cedar Hills Regional Landfill will be full around 2028.

Figure 2: Shoreline Waste Generation



HOUSEHOLD BATTERY RECYCLING

The City offers household battery recycling for Shoreline residents at no cost. In 2020, Shoreline residents recycled 5,749 pounds of batteries, keeping them out of the landfill and protecting the environment from hazardous waste. Battery types accepted include alkaline, carbon zinc, lithium, lithium-ion, nickel cadmium, nickel metal-hydride, and small rechargeable lead acid batteries less than two pounds. While some drop-off locations were closed due to the COVID-19 pandemic, you can find current battery recycling locations at shorelinewa.gov/recycling.



COVID-19 Impacts on Our Waste System

Recology made significant operational and administrative adjustments in response to COVID-19 that allowed their team to continue safely serving City customers. As workers and students across the region transitioned to working and learning remotely, many commercial buildings were left vacant while household occupancy reached an all-time high. At the same time, consumer behavior shifted quickly to online shopping. We saw a 3% increase in overall waste generation in Shoreline in 2020, due primarily to more waste coming from homes. There was an 11% increase in residential waste generated in 2020 vs. 2019. That compares to an 8% decrease in commercial waste generated during the same period.

A CHANGING WASTE STREAM

We have seen a large increase in both cardboard and Personal Protective Equipment (PPE)—such as disposable face masks and gloves—in the waste stream in our community due to the COVID-19 pandemic. It's important that you properly dispose of those materials. Want to reduce the amount of PPE waste your family creates? Choose reusable supplies and purchase supplies in bulk, when possible, to reduce packaging waste.

- **Excess cardboard** must be flattened and bundled.
- **Disposable masks and latex gloves** go in the trash.
- **Large hand sanitizer bottles** that are empty, clean and dry can be placed in your recycle cart.
- **Small hand sanitizer bottles** (i.e. pocket size, 2 ounces or less) go in the trash.

RECYCLING SPECIAL ITEMS

Recology offers a residential curbside Special Item Recycling program for items that are not accepted inside recycle carts and are hard to properly dispose of otherwise. The Recology Shoreline Store also accepts hard-to-recycle items that you cannot put into curbside recycle carts. Unfortunately, due to the COVID-19 pandemic, Recology had to close the Recology Shoreline Store for most of 2020 and suspended special item pickups for four months. These closures greatly impacted our annual reporting totals for special item recycling.

ONLINE EDUCATION

Prior to COVID-19, Recology's Outreach and Education team hosted eight in-person presentations engaging with almost 200 Shoreline residents. After the COVID-19 outbreak, the Education and Outreach team quickly pivoted to providing virtual outreach programs to maintain engaged community involvement. Recology hosted an additional five virtual workshops in Shoreline with more than 100 attendees.

Do you have cardboard that doesn't fit inside your recycle cart?

PLACE EXCESS CARDBOARD NEXT TO YOUR RECYCLE CART

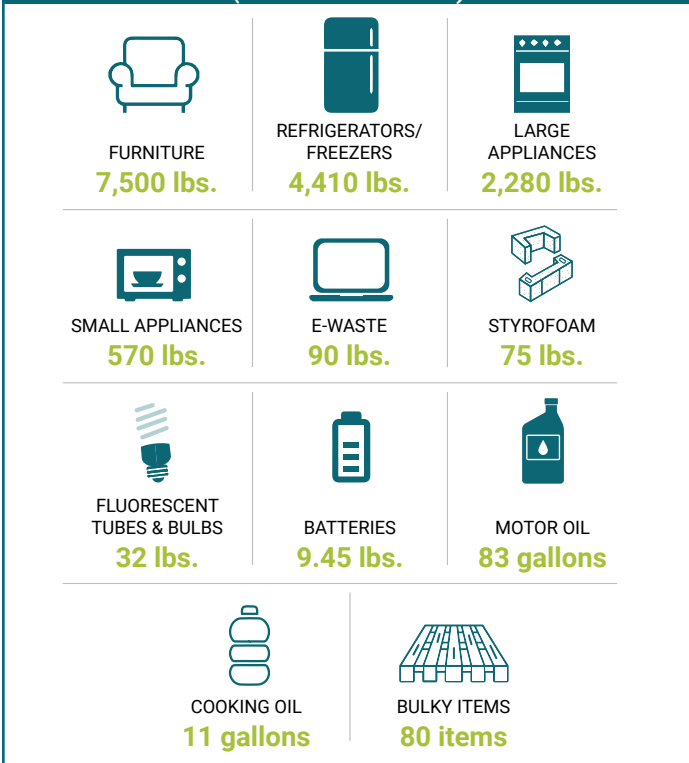


Cardboard must be flattened, bundled and stacked inside a roughly 3'x3'x3' box or cardboard must be in roughly 3'x3'x3' pieces and twined together.

Figure 3: 2020 Recology Shoreline Store Collection of Hard-to-Recycle Items (January–March 2020)



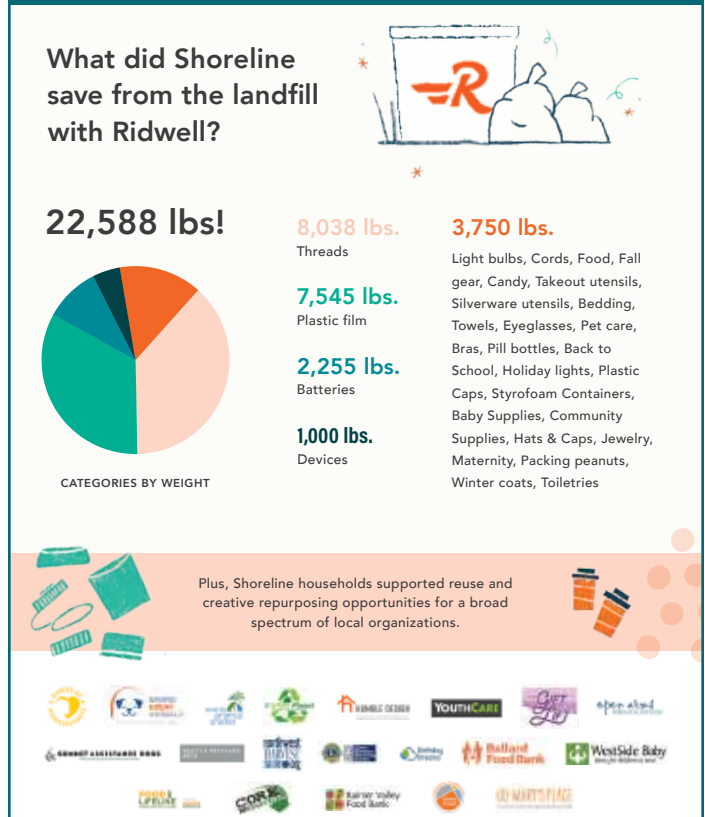
Figure 4: 2020 Special Item Pick-ups for Recology Customers (amounts collected)



RECYCLING GUIDE & QUIZ

The City launched a new interactive online recycling guide and quiz for Shoreline residents in early 2020. The guide includes information on what you can place in your recycling cart, items that you can recycle at special drop-off locations, how to schedule a special item pickup with Recology, and more. You can also test your recycling knowledge with our fun and

Figure 5: Ridwell Landfill Rescue










informative recycling quiz. More than 2,000 people visited the online recycling guide, and 930 people took the quiz in 2020.

The City also mailed a new “What do I do with....?” print recycling guide to Shoreline residents in the spring to provide information on where to recycle and safely dispose of materials not accepted in curbside Recology carts. This is a print companion to the new online recycling guide to provide access to information in multiple formats. Learn more at shorelinewa.gov/recycling.

OPPORTUNITIES TO RECYCLE MORE

Shoreline residents can recycle many items for free at the Shoreline Recycling and Transfer Station, including plastic bags and film; polystyrene foam blocks and coolers; and clothing, shoes, and fabrics. Ridwell also picks up plastic bags and film; household batteries and light bulbs; clothing; Styrofoam; and more for recycling for a fee. Ridwell customers in Shoreline diverted over 22,000 pounds of materials from the landfill in 2020! Those materials were reused or recycled in partnership with local organizations, non-profits, and specialized recyclers.

Figure 6: Waste reduction outreach and results

	# of businesses
 Unique Businesses Visited	106
 Total visits	187
Complete	106
Incomplete	0
 Surveys Completed	94
 Waste Assessments	20
 Straw Pledges Submitted	11
 EnviroStars registered	8
 EnviroStars recognized	4
 EnviroStars follow-up calls and emails	64
 Pieces of collateral delivered	210



STATEWIDE PLASTIC BAG BAN DELAYED

The 2020 Washington State Legislature passed a statewide ban on single-use plastic bags, originally scheduled to take effect on January 1, 2021. The statewide law will preempt City Ordinance No. 653, which enacted carryout bag regulations in Shoreline in April 2013. The State has delayed implementation of the law due to the COVID-19 pandemic. Visit ecology.wa.gov/Bag-Ban for more information and status updates.

engaged with available resources and programs, including the straw pledge and the EnviroStars Green Business program, as noted in Figure 6.

WASTE WISE PILOT PROGRAM

Multifamily apartment and condominium complexes frequently experience recycling challenges with high levels of non-recyclable materials ending up in recycling containers. In July, the City and Recology launched a Waste Wise pilot program to reduce recycling contamination at multifamily complexes. This program provides free tools and resources to make it easy and convenient for both residents and property managers to recycle right, which could help them avoid future fees for contaminated recycling containers.

Residents at participating properties received educational tools to help them recycle right, including customized instructional videos and tote bags to carry recyclables, replacing plastic bag liners which are one of the main contaminants. Three properties participated in Waste Wise in 2020 and several more signed up for 2021. Recology staff are assessing the amount of recycling contamination before and after properties join the program to measure effectiveness. The City received a grant from the Washington State Department of Ecology to provide this program in 2020 and 2021.



STORY OF PLASTIC SCREENING

The City hosted a virtual community screening and discussion of The Story of Plastic in November. This documentary takes a sweeping look at the man-made crisis of plastic pollution and its worldwide effect on the health of our planet and the people who inhabit it. Experts from Recology and Zero Waste Washington discussed key strategies to address the plastic pollution crisis, including better systems for shopping with reusable containers and stronger producer responsibility policies for plastic manufacturers. Approximately 30 people attended the online event. The recording is available on YouTube at: <https://youtu.be/8sBGhArWlvg>.

WASTE REDUCTION OUTREACH WITH LOCAL BUSINESSES

The City completed a Business Waste Reduction Outreach project with more than 100 Shoreline businesses in early 2020 with funding from a Waste Reduction & Recycling Grant from King County Solid Waste. The main goals of the outreach were to better understand current waste behaviors, identify in-language support needs, promote the City's green business programs, and provide free resources to increase recycling and composting.

Cascadia Consulting Group provided in-person outreach in seven languages to 106 local food service establishments. Of the businesses visited, 94 businesses participated in a survey and further



SUMMER FUN YARD ART CONTEST

The City partnered with Recology last summer to launch a Recycled Yard Art Contest. The contest invited Shoreline residents to decorate yards with everyday recyclable materials and celebrate the summer season. We encouraged participants to sort through their blue cart recyclables and create a piece of yard art with a “summer fun” theme. Residents submitted a total of 13 art projects with entries from all ages. All participants received a Sustainable Shoreline reusable thermos while winners in each category received a Recology zero waste gift bag.

Best Use of Recycled Materials:
Melanie Hernandez,
Smore's Pig



Best Summer Fun Theme:
Elana Bronsther,
Lemonade Stand





Most Colorful:
Madhura Keskar,
bottle top flowers



Notable Young Artist (under 10 years):
Ayla Bronsther



LOW-WASTE GIFT WRAPPING RAFFLE

To encourage less waste during the holidays, the City hosted a low-waste gift wrapping raffle in late 2020. Traditional wrapping paper is not highly valued by recyclers due to ink and tape, and you must throw metallic



wrapping paper in the garbage. There are many other methods of gift wrapping that create less waste and may be easier to recycle, such as upcycled calendars, bows made from old magazines, and reusable cloths and containers. We encouraged residents to share photos of their favorite low-waste gift wrapping methods for a chance to win a raffle prize, including a Sustainable Shoreline coffee thermos, a reusable metal straw, and a recycling tote bag.

SHORELINE FLATWARE LENDING LIBRARY

Volunteers at the Ronald United Methodist Church (UMC) in Shoreline created the Shoreline Flatware Lending Library in late 2019 to reduce the use of single-use plastic utensils and promote an ethic of sustainability. The lending library makes reusable spoons, forks, knives, and a few special utensils available for free to anyone in the community. People used the flatware lending library three times in early 2020 before state and local guidelines cancelled gatherings due to the pandemic. Thank you to King County Solid Waste Division for their support of this project!



ARE YOU COMPOSTING?

Composting organic materials, such as food scraps and food soiled paper, wood, and yard waste, reduces carbon emissions, providing climate and other environmental benefits. Applying compost to soil in our yards and gardens can also reduce the use of petroleum-based fertilizers or pesticides and their associated environmental impacts. As a Recology customer, you receive a green yard waste container at no additional cost. Interested in backyard composting? The City has a community workshop planned in spring 2021!

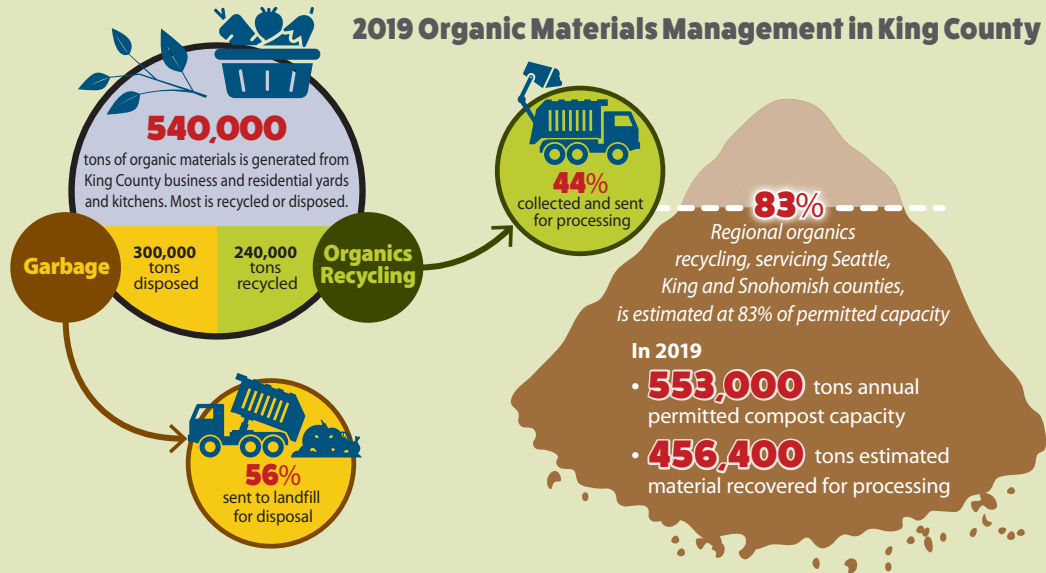


Image courtesy of King County

COMPOST & WOOD CHIP MULCH PRACTICES

City staff applied over 300 cubic yards of Cedar Grove compost at City parks and facilities, helping to divert over 180 tons of material from the landfill. Applied compost helps increase fertility, water holding capacity, and resilience of planted areas and reduce competition from weed species. City staff also began recycling wood chips from trees cut down in the region into tree rings around trees in city parks to protect their root zone and increase the water holding capacity. We are also stockpiling any wood chips created within normal operations for Grounds Maintenance, Streets, and Parks. This will allow us to use the wood chip mulch within our own landscapes and lessen the amount of mulch purchased from outside vendors.

ELECTRONIC PERMITTING

The City launched a new electronic permitting process in September, which we expect to help reduce paper use. We expect this to help cut down on paper use. While the traditional process required multiple copies of paper submittal materials that could be hundreds of pages long, people can now apply for permits online.

The electronic option saves on paper use, storage space for permit materials, staff time processing large paper submittals, and customer costs for printing large quantities of paper. From September to December, 34 projects utilized the new electronic permitting process.

CHECK OUT THE NEW KING COUNTY HAZARDOUS WASTE WEBSITE!

Visit kingcountyhazwasteWA.gov to find information about hazardous waste storage and disposal, safer cleaning, and technical and financial resources for eligible businesses. Have hazardous materials in need of disposal? Visit the North Seattle Household Hazardous Waste Facility located at 12550 Stone Ave N.



2020 SFM SEASON by the Numbers

Total Vendor Sales: \$370,372
Shopper Count: 16,233
Average Transaction/Shopper: \$22.82
Total Unique Vendors: 25
Total Market Days: 17 (closed July 4th)
SNAP & Market Match: \$17,732
WIC & Senior Vouchers: \$10,168
Volunteer Hours: 918
Pounds Donated to Food Bank: 2,468

SHORELINE FARMERS MARKET

Traditionally, Farmers Market are vibrant community spaces where neighbors meet to catch up and enjoy leisurely afternoons outside. When the COVID-19 pandemic hit, the Shoreline Farmers Market opened as an essential business but quickly had to pivot its message. No longer a bustling event, the Farmers Market went back to its core mission of providing equal access to local and sustainable food. With the support of the community, dedicated volunteers, and sponsors, the Shoreline Farmers Market provided the community with a safe and healthy shopping experience. Vendor sales for 2020 totaled \$370,372 with more than 16,000 customers safely participating in over 17 market days between June and October.

FEEDING NEIGHBORS

In 2020, the City offered Micro-Grants, a temporary funding mechanism for recognized neighborhood associations to respond to an immediate need in their neighborhood during the COVID-19 pandemic. Two of those grants focused on increasing access to food.

- The Briarcrest Neighborhood Association (BNA) partnered with Patty Pan Cooperative from May to July to deliver over 500 free, healthy meals to more than 50 neighbors sheltering in their homes due to the pandemic. Each week, Devra Gartenstein cooked up creative one-dish meals in the Patty Pan kitchen. BNA officers then delivered the meals to recipients, including low-income senior and disabled residents of King County Housing Authority's Paramount House located in South Briarcrest.
- The Parkwood Neighborhood Association (PNA) received funding to assist low-income neighbors in accessing fresh produce while simultaneously supporting the Shoreline Farmers Market and its vendors. PNA purchased and distributed \$975 of gift certificates to individuals and families who were able to shop safely at the Farmers Market and choose from a wide variety of fresh products that were not available to them through food banks or pantries.

SAFE MEDICATION RETURN AVAILABLE ACROSS WASHINGTON STATE


Washington State's newest producer responsibility program launched in November. The [Safe Medication Return program](#), operated by MED-Project LLC and overseen by the Washington State Dept. of Health, gives residents "free, convenient, and environmentally responsible options for disposing of unwanted medication," funded by drug manufacturers at no cost to taxpayers. Mail your expired or unwanted medications for free or drop them off at a participating kiosk: med-project.org



TRANSPORTATION & MOBILITY

Our Goal:

Develop low-carbon, safe, and convenient transportation options.

INDICATORS		2020 STATUS UPDATE
Increase walkability for our community by 2030	48 out of 100 WalkScore™	Shoreline's WalkScore held steady at 48 in 2020. A WalkScore is based on the number of shops and services within a 5-minute walk to residences, transit service, and bikeability.
Add 14 miles of new sidewalks by 2030, expanding the network to 92 miles	8,330 linear feet (<2 miles) added	A total of 8,330 linear feet, approximately 1.5 miles, of new sidewalk has been added since 2016, including 4,105 linear feet added in 2020.
Add 20 miles of dedicated bike lanes and paths by 2030, for a total of 40 miles	8.4 miles added	From 2017-2019, the City added approximately 8.4 miles of dedicated bike lanes and paths. The City didn't add any new miles in 2020.
Increase the number of Shoreline residents who bike to work to reach 500 bike commuters by 2030	280 bike commuters	Per the 2017 American Communities Survey data, as no data was available for 2018, 2019, or 2020.
Add 21 public electric vehicle (EV) charging stations in the community by 2030	21 EV charging stations	A total of 21 publicly available electric vehicle chargers were identified on maps from PlugShare and AFDC in 2020, compared to 9 stations identified in 2016.
Increase the number of registered EVs in the community to 450 EVs by 2030	 756 EVs	This goal was met in 2019. As of December 2020, there were 756 EVs registered in Shoreline, representing a 10.2% increase compared to 2019.
Have 36% of residents living within a 10-minute walk of a light rail station by 2035	Not Available	We will report these indicators when the light rail stations are open.
Achieve over 13,000 light rail station boardings per day by 2035		

BIKE EVERYWHERE DAY

On Friday, June 19, the City upheld a long-standing tradition of hosting a "Bike Everywhere Day" celebration station along the Interurban Trail, while modeling how to conduct a public event with COVID-19 safety protocols. Throughout the pandemic, biking has been a crucial way for members of the community to stay active, reduce stress, and get around town. We typically celebrate "Bike Everywhere Day" in May but it was rescheduled due to the COVID-19 pandemic. This year's station offered

social-distanced cheerleading by broadcasting upbeat tunes and waving and cheering on cyclists as they passed by. A total of 57 cyclists passed by the City's booth from 6:30 to 10:00 am, including several electric bicycles, a recumbent, and a tandem bicycle. Several cyclists stopped to say thank you, offer suggestions for infrastructure improvements, and take a selfie with "Squatch." A small but mighty team of five City staff also rode (separately) over 409 miles in 93 trips as part of the annual Bike Everywhere Challenge in June.





DID YOU KNOW ?

A new state law, effective October 1, 2020, makes it legal for bicyclists to treat stop signs as yield signs. That means bicyclists can now roll through a stop sign, if there aren't any automobiles approaching the sign-controlled intersection. This law doesn't apply to signalized intersections. This law helps improve safety at intersections as bicyclists are most vulnerable to being hit by inattentive drivers at intersections.

BICYCLE FRIENDLY COMMUNITY ACTIONS

New bicycle racks were recently installed at City Hall to increase secure parking for visitors arriving by bicycle. The old racks did not provide two-point connections to securely lock bicycles or adequate space to park multiple bicycles at a time. The new racks allow riders to secure more bicycles with either cable or U locks. We also installed a new salmon-shaped bicycle rack in the Park at Town Center, along with improved bicycle storage for employees biking to City Hall. The existing bicycle cage was reconfigured to provide greater accessibility, with two new ground racks that replaced vertical hanging racks that were not accessible for all employees, and the addition of three outlets to provide charging for e-bikes.



N 200TH SIDEWALK REPLACEMENT PROJECT

The City completed sidewalk improvements due to tree root damage along N 200th Street between Ashworth Avenue N and Meridian Avenue N. To prevent future damage to the sidewalk, we removed eleven trees and replaced them with tree varieties less likely to cause root damage to sidewalks and roads. This project increases safety and accessibility in our community, providing easy access to services such as the transit center, Aurora Village, the Compass Veterans' Center, and medical offices. Funding for this project came from Transportation Benefit District funds (vehicle license fees and voter approved sales and use taxes) and general funds.



DID YOU KNOW?

Sound Transit's Link light rail system is now running on 100 percent carbon-free electricity, making it the first major light rail system in the country to achieve this milestone! An innovative agreement with Puget Sound Energy to purchase wind energy directly from the utility's Green Direct program makes this possible.



REDUCING SHORELINE'S CLIMATE FOOTPRINT

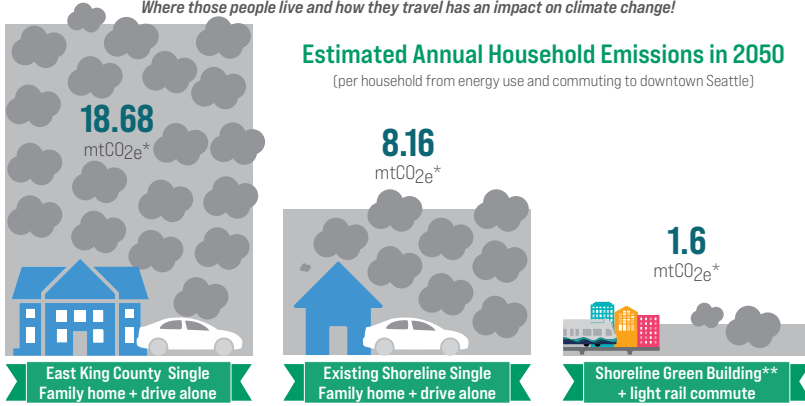
GREEN BUILDING NEAR LIGHT RAIL IS A PRIORITY ACTION TO FIGHT CLIMATE CHANGE

Housing and Transportation Choices have big climate impacts

By 2050...the Puget Sound region's population is expected to reach 5.8 million people. Where those people live and how they travel has an impact on climate change!

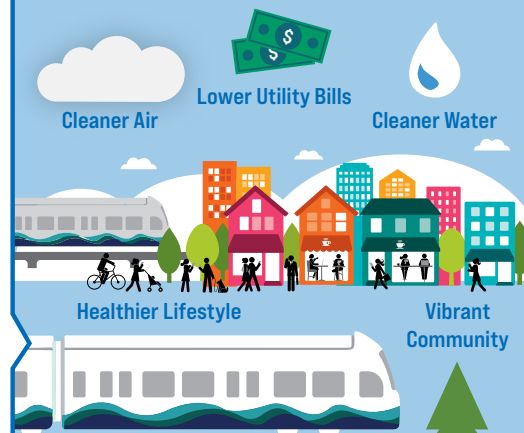
Estimated Annual Household Emissions in 2050

(per household from energy use and commuting to downtown Seattle)



*mtCO_{2e}=metric tons of carbon dioxide equivalent ** new development in the station areas must meet green building standards

Community Benefits



New trees planted with light rail will sequester more carbon dioxide




Data from 2020 Analysis of GHG Emissions Associated with Tree Removal and New Development in Shoreline and King County.



TREES, PARKS & ECOSYSTEMS

Our Goal:

Protect local and regional natural resources and restore ecosystem health.

INDICATORS	2020 STATUS UPDATE	
Total number of trees planted in City parks (plant 1 million trees in King County by 2020)	 495 trees planted	This goal was met in 2019. King County data for measuring a regional goal to plant 1 million trees by 2020 includes totals from the City.
Add five new acres of parkland by 2023, compared to 475 acres in 2016	0.87 acres acquired	The City acquired 0.87 acres of new parkland in 2020: a 0.17-acre parcel at Paramount Open Space and a 0.7-acre parcel at 1341 N 185th Street in the Meridian Park neighborhood.
Achieve a water quality index score of 80 or better for all streams by 2030	Scores ranged from 20–69	While individual stream water quality index scores ranged from 20–69, the average score across all stream sites increased from 40.4 in 2008 to 52 in 2020 (down from an average of 56.6 in 2019).
Install 200,000 square feet of rain gardens and other natural drainage systems to reduce polluted runoff by 2030	152,039 sq ft	In 2020, the City installed over 10,000 sq ft of natural drainage systems, for more than 152,000 sq ft installed from 2009–2020.

2020 TREE PLANTINGS

We planted a total of 495 trees in 2020. That includes 421 trees and 125 native understory plants planted at Ballinger Open Space with the Mountains to Sound Greenway Trust, nine trees planted at Twin Ponds Park, and 65 new street trees on the east side of Shoreline. The street trees are Zelkova and Norwegian



Sunset Maples, which are known for their fall colors and are suitable street trees that will help maintain our urban tree canopy. Funding for the trees came from fees collected in lieu of property owners replacing trees removed from their property. The City’s tree code has tree replacement requirements. However, it is not always possible

to replant trees on the same property. In such cases, property owners must pay a fee for each tree not replanted. The fee is dependent on the size of the tree to be replaced but averages about \$2,500. The City uses fees collected to purchase, plant, and maintain trees around the City. The City used \$11,000 from the tree fund to purchase and plant the new street trees in 2020.

NATIVE PLANTS

City staff worked with Sound Transit to seed disturbed areas of Ronald Bog Park with an eco-turf seed mix that requires less nutrient and water inputs, while staying green in the summertime and providing forage for bees and other pollinator species. Staff also performed a green renovation of the turf areas at City Hall, manually aerating, topdressing with compost and overseeding a blend of grasses with low nutrient and water needs. We also purchased the first of many batches of native plants in 2020 for installation in the Aurora Corridor and on other City properties.



NEW NEIGHBORHOOD PARKS

The City acquired 0.87 acres of new parkland in 2020, including a 0.17-acre parcel at Paramount Open Space and a 0.7-acre parcel at 11341 N 185th Street in the Meridian Park neighborhood. We are also in the process of acquiring property to create an additional neighborhood park located at 709 N 150th Street in the Westminster Triangle neighborhood. Funding for the park acquisitions comes from Conservation Futures Tax grants and Park Impact Fees. The 2017–2023 Parks, Recreation and Open Space (PROS) Plan cites a citywide population forecast of more than 15,000 new residents by 2035. To help manage impacts from future growth and ensure adequate park land for future generations, the PROS Plan set a target of adding five acres of new park land by 2023.

NATURAL YARD CARE WORKSHOPS

The City hosted two “Growing a Healthy Lawn Naturally” webinars with Ladd Smith of In Harmony Sustainable Landscapes in May. Forty residents attended the two sessions, which covered five steps to creating a healthy and sustainable lawn from the roots up. The City also hosted five natural lawn and garden care webinars in September and October to help homeowners troubleshoot persistent lawn problems, explore lawn alternatives, and create a healthy landscape naturally. Local gardening experts from the Garden Hotline shared techniques to both green lawns and replace them with a Pacific Northwest appropriate garden. More than 300 residents attended the fall webinars. We provided raffle prizes—including a soak hose, weed puller, and organic worm castings—to help attendees put what they learned into practice. Find more information and view recordings of each webinar at shorelinewa.gov/naturallyardcare.



SHORELINE RECOGNIZED AS A TREE CITY

For the eighth year in a row, the Arbor Day Foundation has recognized the City as a Tree City USA. This designation acknowledges the City's effort to contribute to the preservation of the Pacific Northwest and ensures that the City continues to make efforts to increase the urban tree canopy.



RONALD BOG WETLAND MITIGATION

Ronald Bog Park reopened for public use in late July after Sound Transit completed construction of a wetland mitigation project. This project added one acre of new wetland and enhanced over two acres of wetland buffer area with native vegetation and invasive species removal. Sound Transit relocated The Kiss sculpture out of the mitigation area and added new pathways from the parking lot to the shelter, to view the wetland areas, and through the Rotary Club arboretum.

Sound Transit is responsible for maintenance and monitoring of the mitigation wetlands and buffer area for a period of ten years to meet federal permitting requirements. The goal of this project was to replace, within the same impacted watershed, the wetland functions and habitat lost with the unavoidable filling of a few smaller wetlands on the east side of I-5. The wetland and buffer are reserved for the new plants and wildlife that will make their home here.

GREEN SHORELINE DAYS

The Green Shoreline Partnership, a collaboration founded by Forterra and the City of Shoreline, hosted a week of virtual learning and celebration of our urban forests in November. The Green Shoreline Days festivities featured various activities with the opportunity for Shoreline residents to win a small care package. Learn more at the [Green City Days website](https://www.shorelinecity.org/green-city-days).

BALLINGER OPEN SPACE RESTORATION

For years, a neglected 2.6-acre green space in Shoreline sat adjacent to Ballinger Homes, a low-income subsidized housing community. This neglect led invasive weeds, including knotweed, Himalayan





blackberry, and English ivy, to fill Ballinger Open Space. The Mountains to Sound Greenway Trust, City Forest Credits, the City and local residents came together in late 2018 to start restoring Ballinger Open Space to its natural condition and make it more appealing for public access.

This public green space access is especially important because of the high number of youth and families that live in the area and the opportunity to mitigate air pollution from nearby highways. Ballinger Homes sits at the nexus of Interstate 5 and State Highway 104 in the northeast corner of Shoreline. Restoring the green space, removing invasive weeds, and planting coniferous trees will also help slow erosion and flooding, effects of high-water flow during heavy rain. The City will continue to work with Mountains to Sound Greenway Trust to improve this open space in a regional effort to improve forest and watershed quality.

HELP WITH FLOODING: ADOPT A DRAIN!

A total of 44 volunteers participated in the City's Adopt-A-Drain program in 2020, caring for 78 drains and putting in 157 volunteer hours. Volunteers help prepare for large storms that could lead to flooding in all Shoreline neighborhoods. We notify volunteers ahead of storms with requests to clear storm drains and report any flooding issues they come across. We're always looking for volunteers! Sign up to participate at shorelinewa.gov/adopt-a-drain.



SOAK IT UP REBATE PROGRAM

Seven Shoreline homeowners installed rain gardens and native vegetation through the Soak it Up Rebate Program in 2020. Participants received an average of \$1,821 for projects to help improve drainage and protect clean water in our streams, lakes, and Puget Sound. Since 2014, 56 properties have received a Soak it Up Rebate, helping to reduce and clean stormwater runoff from over 43,088 square feet of hard surfaces around the city. We provide rebates on a first-come, first served basis each year. Learn more at shorelinewa.gov/soakitup.



INNOVATIVE FUNDING FOR CONSERVATION

The City received a grant to study the feasibility of applying Landscape Conservation and Local Infrastructure Program (LCLIP) in the 145th and 185th light rail station subareas, Town Center, and the Community Renewal Area (Aurora Square). The purpose of the program is to encourage the Transfer of Development Rights (TDR) with a public infrastructure financing tool called tax increment financing. The program gives the City access to a new form of revenue in return for TDR from regional farms and forests. LCLIP creates incentives for both land conservation in the county and infrastructure improvements in the city. City staff is currently

working on code amendments to incentivize the purchase of TDRs to implement LCLIP in 2021.

INVASIVE SPECIES REMOVAL AT ECHO LAKE

A small group of volunteers from the Echo Lake Neighborhood Association (ELNA) pulled six bins worth of invasive cattails from Echo Lake in August. Getting rid of invasive cattails from Echo Lake Park is a long-term project of the neighborhood association. Volunteers can only perform this work during certain times of the year. ELNA had to cancel its annual big work party in the park due to the pandemic. Also because of the pandemic, ELNA didn't advertise this small, socially distanced work party.

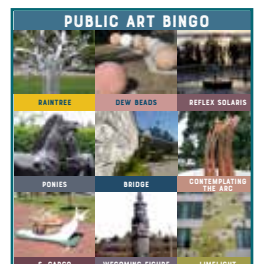
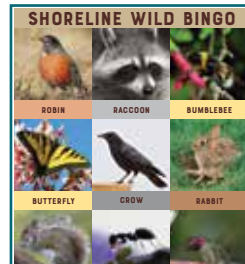


SUMMER BINGO CARDS

Every Friday through the summer, the City released a fun, interactive bingo card for young explorers and their families. We created eleven cards to download and participants used them at City summer camps. The cards encouraged people to take a walk around the home or neighborhood, look closely, and see how many squares they could mark off while learning about our area's flora and fauna, local spaces, and sustainable practices. Bingo cards covered the following themes:







- Shoreline Wild
- Pond & Lake Fun
- Fun at the Beach!
- Know What You Throw!
- What's growing nearby?
- Growing in the Garden
- Find it in the Parks
- Types of Parks
- Public Art
- Explore the Insect World
- Wild Textures



Salmon-Safe Activities

Shoreline was recognized as the first Salmon-Safe City in Washington State in 2019. Salmon-Safe Certification recognizes Shoreline’s regional leadership in preventing water pollution and commits the City to take additional action through 2024 to improve the health of Puget Sound. City staff worked on several Salmon-Safe activities in 2020. Learn more at shorelinewa.gov/salmonsafe.

SALMON-SAFE ACTIVITIES IN 2020			
EDUCATION & OUTREACH	We added a new Salmon-Safe feature to the Currents newsletter with simple tips for residents to reduce water pollution and protect salmon habitat.		
 <p>CONDITION 2: Incorporate green stormwater infrastructure into the standard roadway cross-section to identify preferred low-impact development techniques for Right-of- Ways (ROWs).</p>	 <p>CONDITION 5: Assess water conservation efforts.</p>	 <p>CONDITION 8: Assess snow removal and ice control plan.</p>	 <p>CONDITION 9: Update the integrated pest management plan.</p>
<p>With the 2020 Engineering Development Manual (EDM), the City adopted new standard details for permeable sidewalks, bioretention, and soil-amendment; added specific language requiring green stormwater infrastructure in the ROW, if feasible; and revised the generic street section dimensions in the EDM Street Matrix, increasing the amenity zone (i.e., landscaping strip between the curb and sidewalk) width by 2 feet to accommodate green stormwater infrastructure.</p>	<p>Staff created a 2013 water use baseline, created a process for tracking water use on an ongoing basis, and began working on an analysis of future conservation targets and methods.</p>	<p>Public Works staff are leading a project to reduce the City’s environmental impact through the elimination or reduction in chloride-based snow and ice control chemicals, specifically near sensitive infrastructure and waterways. This project will make recommendations for the City’s new maintenance facility, update the City’s 2017 Snow Removal and Ice Control plan, and develop a Chemical Management Plan that embraces best management practices and operational procedures for winter maintenance to better align with Salmon-Safe standards. Deliverables for this project are due in early 2021.</p>	<p>An interdepartmental team developed a draft Integrated Pest Management (IPM) policy to reduce and track the use of pesticides on City-maintained lands. The policy facilitates and promotes the use of preventive, cultural, mechanical, and biological methods to limit pest populations to predetermined levels before considering resorting to chemical treatment. While the City has had a longstanding commitment to pesticide-free practices, this policy provides clear guidance and oversight to ensure that management strategies employed are the most appropriate and healthy for living inhabitants and the environment. The IPM policy is slated for final review and adoption in early 2021.</p>



YOU CAN BE SALMON-SAFE TOO!

As part of the City’s Salmon-Safe certification, we have committed to avoiding the use of uncoated zinc and copper for any new building cladding. Building materials with uncoated zinc and copper can leach pollutants into stormwater. Those pollutants are toxic to salmon and aquatic life. Do your part to reduce zinc and copper pollution in Shoreline’s waterways and Puget Sound!

- Avoid zinc and copper-bearing building materials at your home or business.
- Switch to copper-free brake pads.
- Fix car leaks as soon as you detect them.
- Reduce the use of garden chemicals, including fertilizers, weed and feed, and pesticides.
- Choose zinc- and copper-free moss removal products.



RESILIENT COMMUNITIES





Our Goal:
Promote community health and prosperity for all.

INDICATORS	2020 STATUS UPDATE	
Add nearly 2,000 additional affordable housing units in Shoreline by 2031	295 units added	The total number of affordable housing units in the City—as measured in the Property Tax Exemption program—increased slightly from 278 in 2019 to 295 in 2020.
Create an estimated 7,200 new jobs in Shoreline by 2035	970 new jobs added through 2019	Data from the Puget Sound Regional Council showed that Shoreline had 16,932 total jobs in 2019 for an increase of 970 new jobs since 2016, and a decrease of 106 jobs compared to 2018. Data for 2020 was not available at the time of publication for this report.

CLIMATE IMPACTS & RESILIENCY STUDY

The City's Climate Impacts and Resiliency Study concluded in 2020 and identified current and future impacts from climate change with recommendations

on how we can work to make our community more resilient. Read the study and download educational materials at shorelinewa.gov/sustainability.

Risk	Trends to Date	Projected Changes
Temperature 	<ul style="list-style-type: none"> ↑ The average year in the Puget Sound region is currently 1.3°F warmer than historic averages. 	By the 2050s (vs 1970-1999 average) <ul style="list-style-type: none"> ↑ Average annual temperature in the Puget Sound region will be 4.2°F to 5.5°F warmer. ☀ The hottest summer days will be 4.0°F to 10.2°F warmer.
Precipitation 	<ul style="list-style-type: none"> ↑ Extreme rain events in Western Washington have increased moderately. 	By the 2080s (vs 1980s) <ul style="list-style-type: none"> ↑ Annual precipitation in the Puget Sound region will increase at least 6.4 percent. ↑ Rainstorms in Shoreline will be more intense. ☁ Winters will be wetter and summers drier.
Puget Sound Hydrology 	<ul style="list-style-type: none"> ↓ Puget Sound rivers have lower streamflows during the summer, and streamflow peaks earlier in the year, leaving streams drier in the late summer and fall. 	By the 2080s (vs 1970-1999 average) <ul style="list-style-type: none"> ↓ Summer streamflows will be even lower. ↑ Flooding risk will increase during the fall, winter, and spring. 💧 The Tolt and Cedar River watersheds (which supply Shoreline's drinking water) will have less snowpack to source water from.
Sea Level Rise 	<ul style="list-style-type: none"> ↑ Sea level has risen 0.8 inches per decade in Puget Sound between 1900-2009. 	By 2100 (vs 1991-2001 average) <ul style="list-style-type: none"> ↑ Relative sea level in Shoreline will rise 2.0 feet or more, resulting in greater risk of coastal erosion and flooding.



HOW IS CLIMATE CHANGE IMPACTING OUR COMMUNITY?



2020 WILDFIRE SMOKE EVENT

Smoke from numerous wildfires in Oregon built up into a super-massive plume that settled over western Washington in early September. Between September 12–17, every air quality monitor in Washington State recorded levels of particulate pollution above the federal 24-hour standard. Particulate pollution, especially the tiny particles known as PM2.5, pose a serious threat to human health. Our bodies' natural defenses don't work against these very small particles which lodge deep in our lungs and get into our bloodstreams. Short-term exposures to PM2.5 can irritate your eyes and throat, produce headaches, and leave you short of breath. For people who already suffer from a respiratory illness or heart disease, the effects are worse, and can even be life-threatening.

Climate researchers predict that the number of acres burned each year in the west will continue to rise, as warmer winters reduce mountain snowpack, and hotter summers dry foliage more quickly, setting the stage for wildfire. Learn more about air quality and how to protect yourself during smoke events at <https://pscleanair.gov/>.



2020 RAIN EVENTS

On September 25th, Shoreline residents witnessed a very short, very high intensity downpour. Available gauge data showed between 0.3 and 0.5 inches of rain fell on many parts of the city within a 15-minute period, which is roughly in line with a 3- to 10-year recurrence storm. This downpour overwhelmed drainage systems in many locations, leading to localized flooding and turbid discharges from some construction sites. We've seen this kind of storm only a handful of times since the City's incorporation. However, we expect to see more of these short duration, high intensity events in the future due to climate change.

Another storm event on December 21st brought over two inches of rainfall for the day and at least 35 flooding incidents. City staff provided sandbags to residents, pumped out floods where feasible, and cleared debris. Available data shows this event was a 3- to 5-year recurrence storm, or larger. We use rainfall and flooding data from large storms like these to better predict susceptible areas and optimize storm response.

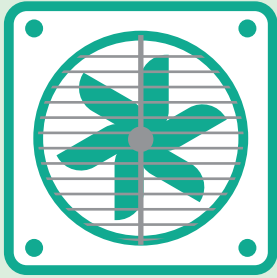
ENVIROSTARS GREEN BUSINESS PROGRAM

EnviroStars is a free, statewide program that recognizes businesses for their efforts to protect the environment and employee health and safety. A total of 14 Shoreline businesses have earned recognition as EnviroStars business. To earn recognition, a business must complete a sustainable practices checklist, which covers water and energy use, solid waste reduction, pollution prevention, transportation, and community actions. Businesses can earn three levels of recognition—Partner, Leader, and Champion—based on the number of sustainable actions taken. To find EnviroStars businesses near you, visit www.envirostars.org or download the ShopGreen mobile app.

Congratulations to our three new EnviroStars businesses for 2020!

- [Colonial Gardens Apartments](#)—EnviroStars Champion
- [Pagliacci Pizza](#)—EnviroStars Partner
- [Shooting Star Gardens](#)— EnviroStars Partner





CREATE A FILTER FAN

One easy and affordable way to make your own air cleaner at home is with a box fan and a furnace filter. These “filter fans” can filter out the small

particles that are common in wildfire or wood smoke. Learn how to make your own filter fan at pscleanair.gov.



SAFER CLEANING RESOURCES

Some household products—including cleaning products—can harm people, animals, and the environment. They may contain chemicals associated with eye, skin, or respiratory irritation, or other human health issues. Some products also need to be disposed of as hazardous waste. Using

the least hazardous cleaning products and methods is the best way to keep everyone in your home safe. The City created a new website and brochure with recommendations on safer cleaning methods and disinfecting for germs to help prevent the spread of disease. A “Safer Cleaning” brochure was mailed to all households in the City and translated in six languages, available at shorelinewa.gov/greencleaning.

2020 ENVIRONMENTAL MINI-GRANT PROJECTS

The City offers grants up to \$5,000 per application to individuals, community groups, and business owners for projects that enhance the environment and promote environmental stewardship. Since 2007,

the Environmental Mini-Grant program has awarded over \$200,000 in funding. The City funded four projects in 2020.

- **Climate and Ecosystem Education—\$1,200:** A total of ten 5th grade classes at Highland Terrace and Echo Lake Elementary Schools received remote lessons on ecosystem and climate change concepts, social responsibility, and environmental stewardship.
- **Climate Action Shoreline—\$1,748:** The community group Climate Action Shoreline printed additional copies of their “Working Together Every Day to Make a Change” educational brochure for safe distribution to community members and created promotional materials for volunteer use at public events in the future.
- **Invasive Species Removal—\$3,500:** Diggin’ Shoreline employed goat herds from Earthcraft Services to suppress invasive species plant growth on a strip of land north of Sky Nursery near the Interurban trail.
- **Environmental Education Mural—\$4,000:** A Shoreline resident created a new mural at Paramount School Park, with input from the neighboring community, to inspire park visitors to protect native habitat.



This appendix provides additional information on the sustainability indicators referenced in the 2020 Sustainability Report. City staff, working with a consultant, developed these indicators in 2018. Most indicators reference a baseline year of 2016, although a few have earlier baseline years as noted below. The 2020 status update refers to data available as of December 31, 2020, unless otherwise indicated.

CLIMATE, WATER & ENERGY

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Achieve zero net municipal greenhouse gas (GHG) emissions by 2030	30% reduction measured from 2009–2016	Not available for 2020. We will measure GHG emissions again for both indicators in 2021.
Reduce community GHG emissions 50% by 2030 and 80% by 2050, compared to 2009	2% reduction measured from 2009–2016	

DETAILS: We calculate GHG emissions using several data sources, including community electricity, natural gas, and heating oil use; vehicle miles traveled; and solid waste generation. We typically measure emissions every three years as it takes a significant amount of staff time to gather and analyze data. Zero net municipal GHG emissions refers to reducing or offsetting all sources of carbon emissions measured in our GHG emissions inventory for City operations. We also refer to this as being carbon neutral. One way to offset GHG emissions is to plant trees that absorb excess carbon dioxide and store that carbon while releasing oxygen back into the air.


We will measure GHG emissions for both City operations and the Shoreline community again in 2021.

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Achieve an average of 10.2 miles per gallon (MPG) for the City’s vehicle fleet by 2030	8.7 MPG	9.9 MPG


DETAILS: Municipal fleet fuel efficiency increased from 8.7 MPG in 2016—and 7 MPG in 2019—to 9.9 MPG in 2020. Data provided by City staff in the Administrative Services Department. We captured miles from CityWorks and captured fuel use predominately from King County Fleet (which provides a fueling station for City vehicles), with some fuel use data from the Shoreline School District (another fueling site for City vehicles). Due to COVID-19 requirements of social distancing, Fleet Services leased four additional trucks during the summer of 2020 to achieve the same amount of work done by the Public Works Grounds Maintenance crew.

We do not capture other fuel use from employee travel reports or other transactions in this calculation. This calculation also does not include MPG calculations for equipment, fuel cans, or larger vehicles (such as street sweepers and Vector trucks), electric vehicles or the police transport van that was historically in the City fleet. The City currently has three electric vehicles (including two electric police motorcycles) and four hybrid vehicles. The City is committed to replacing gasoline and diesel vehicles with electric or hybrid options as vehicles are due for replacement and heavy-duty vehicle technologies advance.

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Increase the number of green residential units in the community to over 700 by 2030	~260 units	~688 units
<p>DETAILS: In 2020, the City counted 373 total Built Green 4-Star units – including 158 units in the light rail Station Areas – and 315 LEED Platinum units, for an increase of 125 units compared to 2019. To count as a green unit, projects must register with a certification agency, such as Built Green. Built Green Program staff provided data for the 2016 baseline. We obtained data for the 2020 status update from the City’s TRAKIt system.</p> <p>In 2015, the City created the Mixed-Use Residential (MUR) zoning districts for the light rail station subareas. The City mandated that any new building in the MURs be constructed at the Built Green 4-Star Level. As a result, the number of green building units permitted in Shoreline has grown exponentially in recent years.</p>		

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Increase square feet of certified green commercial space in Shoreline by 33% by 2030	668,000 sq ft	 904,793 sq ft (35% increase)
<p>DETAILS: The 2020 status update remains the same as reported in 2019 as we didn’t add any new certified green commercial spaces in 2020. It is unclear how we developed the 2016 baseline data, but it appears to include commercial properties that received LEED certification. Staff used the City’s TRAKIt system to review data for the 2020 status update.</p>		

INDICATOR	2010 BASELINE	2020 STATUS UPDATE
Keep per capita water use at the 2010 level of 19,000 gallons per resident per year	19,000 gallons/resident/year	Not available for 2020
<p>DETAILS: Seattle Public Utilities and North City Water District provided information on water use by sector (residential, commercial, etc.) in Shoreline to establish the 2010 baseline. However, both utilities informed City staff in 2019 that they are no longer able to provide Shoreline-specific water use data by sector for completing this calculation. Thus, we will not be able to evaluate this indicator on an ongoing basis.</p>		

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Install solar panels to produce 200 kW of electricity by 2030	157 kW	 1,867 kW of customer solar installed
<p>DETAILS: Seattle City Light provides electricity for the Shoreline community, and all properties that install solar photovoltaic panels must register their project with Seattle City Light. Per Seattle City Light, as of December 31, 2020, customers have installed a cumulative 1,867 kW, or approximately 1.87 MW, of solar in Shoreline. That includes approximately 433 kW of solar installations in 2020.</p> <p>It is unclear how we obtained the 2016 baseline data. However, the 2016 baseline appears to include data for 16 installations completed as part of the 2016 Solarize Shoreline campaign that installed 117 kW of solar capacity, and a 20.2 kW solar installation at City Hall.</p>		

MATERIALS, FOOD & WASTE

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Divert 70% of waste generated in the Shoreline community from the landfill	44% overall diversion rate 58% Single-Family 31% Multifamily 26% Commercial	50% overall diversion rate 64% Single-Family 25% Multifamily 27% Commercial
<p>DETAILS: Shoreline residents and businesses generated over 37,958 tons of garbage in 2020, which was 1,203 tons (3%) more waste than measured in 2019. They recycled or composted approximately 50% of that waste, up slightly from 48% in 2019. Compared to 2019, diversion rates for both single-family households (64%) and multifamily customers (25%) remained steady, while the amount of waste diverted from the landfill by commercial customers increased from 24% in 2019 to 27% in 2020.</p> <p>Recology provides data used to calculate diversion rates, i.e., the percentage of waste generated by all Recology customers in the City of Shoreline that they recycle or compost instead of sending it to the landfill. Garbage collected by Recology in Shoreline is taken to the Cedar Hills Regional Landfill. According to population and economic projections, and current recycling rates for King County, the Cedar Hills Regional Landfill will be full around 2028.</p>		

TRANSPORTATION & MOBILITY

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Increase walkability for our community by 2030	48 out of 100 WalkScore™	48 out of 100 WalkScore™
<p>DETAILS: Shoreline’s average WalkScore held steady at 48 in 2020. A WalkScore is based on the number of shops and services within a 5-minute walk to residences; transit service; and bikeability. Walk Score, the organization, calculates WalkScores by gathering data on restaurant/bar/coffee shop locations, transit services, and bicycle infrastructure. Currently, most errands in Shoreline require a car. The opening of two light rail stations in 2024, along with the future high-density residential and mixed-use developments will help to improve Shoreline’s WalkScore. Learn more at www.walkscore.com/WA/Shoreline.</p>		


INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Add 14 miles of new sidewalks by 2030, expanding the network to 92 miles	78 miles	8,033 linear feet (<2 miles) of new sidewalk added since 2016
<p>DETAILS: There are known gaps in the GIS database for sidewalk data. It is also unclear how we obtained the 2016 baseline data. However, a review of miles of sidewalk added in the City’s GIS database showed 4,225 linear feet (<1 mile) of new sidewalk added in 2019, with 4,105 linear feet added in 2020. That includes sidewalk added from redevelopment frontage improvements installed in 2020 and recorded when the project closed out. This brings the total amount of new sidewalk measured in GIS since 2016 to 8,330 linear feet, or approximately 1.5 miles. Sidewalk data from GIS was not available for 2017–2018.</p> <p>We also constructed 1.2 miles of ADA accessible trails in Hamlin, Innis Arden, and Twin Ponds Parks, along with about 790 linear feet of new accessible trail at Ronald Bog Park in 2020, not included in this sidewalk total. The City completed an aerial photo project in early 2020, which will provide updated information on impervious surfaces—including sidewalks—in our community. The data obtained from this project may significantly alter our recorded miles of sidewalk in the future.</p>		



INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Add 20 miles of dedicated bike lanes and paths by 2030, for a total of 40 miles	20 miles	28.4 total miles (0 miles added in 2020)
<p>DETAILS: While it is unclear how we obtained 2016 baseline data, a review of data from staff in the Public Works Department from 2017-2019 showed an estimated 28.4 total miles of dedicated bike lanes and paths in our community. We did not add any new miles of dedicated bike lanes and paths in Shoreline in 2020.</p>		

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Increase the number of Shoreline residents who bike to work to reach 500 bike commuters by 2030	339 bike commuters	280 bike commuters (2017 data)
<p>DETAILS: It is unclear how we obtained 2016 baseline data, although staff thinks it likely came from the American Communities Survey (ACS). The 2020 status update refers to data reported in the 2017 ACS for Shoreline as no bike commuter data was available from the ACS for 2018, 2019 or 2020. Given ongoing challenges with using the ACS for this metric, the City may consider gathering site specific counts for popular bike routes via manual counts, tube counts, and/or automated bike counters in the future.</p>		


INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Add 21 public electric vehicle (EV) charging stations in the community by 2030	9 charging stations	21 charging stations
<p>DETAILS: We identified a total of 23 EV chargers on online charging maps in Shoreline in December 2020. However, two included notes regarding restricted access. We did not include these in this metric. Compared to the 2016 baseline, 12 public EV charging stations have been added in the community. It is unclear how we obtained 2016 baseline data. We obtained data for 2020 from two sources: PlugShare and the Alternative Fuels Data Center (AFDC).</p>		

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Increase the number of registered EVs in the community to 450 EVs by 2030	180 EVs	 756 EVs
<p>DETAILS: As of December 2020, there were 756 electric vehicles (EVs) registered in Shoreline, including 572 battery electric vehicles and 184 plug-in hybrid electric vehicles. Registered EVs represented approximately 1.6% of total Shoreline vehicles in 2020 (as reported by the Washington State Department of Licensing with 47,026 vehicles registered in Shoreline in 2019; 2020 data was not available at the time we developed this report). EV registrations increased by 10.2% from 2019 to 2020, compared to a 1.2% increase in total vehicle registrations in Shoreline from 2018–2019.</p> <p>It appears we obtained data for the 2016 baseline from Data.WA.gov. We also obtained data for the 2020 status update from Data.WA.gov, which provides a summary of EV registrations via the Washington State Department of Licensing.</p>		

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Have 36% of residents living within a 10-minute walk of a light rail station by 2035	NA	Not available for 2020
Achieve over 13,000 light rail station boardings per day by 2035	NA	Not available for 2020

DETAILS: We will report on these indicators when the light rail stations are open.

TREES, PARKS & ECOSYSTEMS

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Total number of trees planted in City parks (towards a regional goal to plant 1 million trees in King County by 2020)	NA	 495 trees planted

DETAILS: We planted a total of 495 trees in 2020, including 421 trees and 125 native understory plants planted at Ballinger Open Space with the Mountains to Sound Greenway Trust, nine trees planted at Twin Ponds Park, and 65 new street trees on the east side of Shoreline.

King County data for measuring the regional goal to plant 1 million trees by 2020 includes totals from the City. The County met its 1 million tree goal. The County has included a new target to plant 500,000 trees by 2025, guided by equity and ecological priorities, in their proposed 2020 Strategic Climate Action Plan.

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Add five acres of new parkland by 2023	475 acres	0.87 acres acquired

DETAILS: The City acquired 0.87 acres of new parkland in 2020, including a 0.17-acre parcel at Paramount Open Space and a 0.7-acre parcel at 1341 N 185th Street in the Meridian Park neighborhood. The City is also working to acquire property to create an additional neighborhood park in the Westminster Triangle neighborhood. This property is expected to be purchased in 2021.

INDICATOR	2008 BASELINE	2020 STATUS UPDATE
Achieve a water quality index score of 80 or better for all streams by 2030	Scores ranged from 26–60, with an average of 40.4	Scores ranged from 20–69 with an average score of 52

DETAILS: The average Water Quality Index Score across all City stream sites decreased from 56.6 in 2019 to 52 in 2020. Five streams scored in the category of “Moderate Concern” in 2020, with two streams (Littles Creek and Thornton Creek) scoring in the category of “Highest Concern.” The average across all Shoreline stream sites remains in the category of “Moderate Concern” or moderately impaired water quality.

The Water Quality Index Score is a unitless number ranging from 1 to 100, with a higher number indicating better water quality. In general, stream sites scoring 80 and above are of “lowest concern,” while scores of 40 to 80 indicate “moderate concern,” and water quality at stations with scores below 40 are of “highest concern.” Scores are determined for temperature, pH, fecal coliform bacteria, dissolved oxygen, total suspended sediment, turbidity, total phosphorus, and total nitrogen. Constituent scores are then combined, and results are aggregated over time to produce a single yearly score for each sample station. King County Environmental Lab analyzes the water quality samples collected by City staff and calculates the annual Water Quality Index Score for Shoreline streams.

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Install 200,000 square feet of rain gardens and other natural drainage systems to reduce polluted runoff by 2030	88,000 sq ft	152,039 sq ft
<p>DETAILS: In 2020, the City installed over 10,000 sq ft of natural drainage systems, also known as “low-impact development (LID)” features. LID refers to a suite of development tools and constructed features that both minimize the environmental impacts of development and seek to mimic ecological functions of the natural environment. Typically, LID refers to stormwater-specific features, such as rain gardens, bioswales, pervious pavement, and cisterns. The 2020 status update includes square footage for City-installed rain gardens, bioretention ponds, and permeable pavement projects. While not included in this indicator, developers and community groups installed an additional 7,734 sq ft of LID features in 2020 across the community as part of development or community projects, for a total of 113,222 sq ft of community installations from 2017–2020.</p> <p>We obtained data for the 2016 baseline using GIS data for City installed raingardens, bioretention ponds, and permeable pavement projects. The baseline includes data points from 2009–2016. An analysis of this data in 2019 showed a higher 2016 baseline of 109,075 square feet. The source of this discrepancy is not clear.</p>		

RESILIENT COMMUNITIES

INDICATOR	2014 BASELINE	2020 STATUS UPDATE
Add nearly 2,000 additional affordable housing units in Shoreline by 2031	11,358 units	295 units added
<p>DETAILS: The total number of affordable housing units in the City increased slightly from 278 in 2019 to 295 in 2020. Since the first Property Tax Exemption (PTE) project in 2007, nine buildings with a total of 901 units have enrolled in the City’s PTE programs, producing 295 affordable units. We expect seven more buildings currently in design and permitting to enroll in the City’s 12-year PTE program. This will add approximately 1,419 PTE units, including an estimated 468 affordable units.</p> <p>The 2014 baseline appears to reference data from the 2014 American Communities Survey and the 2014 Final Environmental Impact Statement for the 185th Street Station Subarea Planned Action. For the 2020 status update, City staff referenced the City Property Tax Exemption report for 2007-2020. The PTE program is the City’s main affordable housing program. For a development to qualify in the targeted residential areas, a project must be multifamily housing development with at least 20% of the units meeting the affordable housing definition as defined in Shoreline Municipal Code Chapter 3.27.020 (excluding the two light-rail station areas).</p>		

INDICATOR	2016 BASELINE	2020 STATUS UPDATE
Create an estimated 7,200 new jobs in Shoreline by 2035	NA	970 new jobs since 2016 (2019 data)
<p>DETAILS: Data for 2019 showed that Shoreline had 16,932 total jobs, for an increase of 970 new jobs since 2016, and a decrease of 106 jobs since 2018. Data for 2020 was not available at the time of publication for this report.</p> <p>The Puget Sound Regional Council (PSRC) reports data as received from the State Employment Security Department (ESD). Supplemental information from Boeing, OSPI, and governmental units from the same period are collected directly by PSRC and used as distributions of the jobs totals reported by ESD. Duplicates, temporary staffing agencies, ski resorts, out-of-area records, and unlocatable records are removed from the dataset. Major sector employment totals by county from the initial ESD dataset are used as control totals and applied proportionally to each record’s employment data to arrive at a total matching that of ESD.</p>		



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