



**CITY OF KIRKLAND**  
**Planning and Building Department**  
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**MEMORANDUM**

**To:** Kurt Triplett, City Manager

**From:** Adam Weinstein, AICP, Director, Planning and Building  
Jeremy McMahan, Deputy Director, Planning and Building  
David Barnes, Senior Planner/Sustainability Management, Planning and Building

**Date:** April 4, 2022

**Subject:** Sustainability Master Plan 1<sup>st</sup> Year Report Card

**RECOMMENDATION:**

It is recommended that the City Council receive a presentation on the progress of the Sustainability Master Plan's implementation.

**BACKGROUND DISCUSSION:**

[The Sustainability Master Plan](#) (SMP) was adopted by the City Council on December 14, 2020. At the time of adoption, staff suggested that an annual report to City Council would provide an update on SMP implementation and help the community understand ongoing projects and how they can be involved in the SPM's success.

The SMP has eight focus areas that include over 200 possible actions to implement with suggested timelines, beginning over a 10-year timeline.

**IMPLEMENTATION**

**Completed Actions**

In addition to nine actions completed during 2021, there are over 70 SMP actions that staff, across City departments and divisions, have been working on out of 200 possible actions over the 10-year time horizon of the SMP.

As noted in the SMP 1<sup>st</sup> Year Report Card (see Attachment 1), here are the actions that have been completed:

Action BI-2.3 — High Performance Building Standards

- On April 5, 2022, City Council adopted codes that require higher performance buildings for larger Council-approved developments and within select zoning districts. Higher performance building codes will ensure that these developments use less energy, water, and fossil fuels for heating, cooling, and cooking.

Action LT-2.1 — New pedestrian connections aligned with the 10-Minute Neighborhood concept

- The Active Transportation Plan team completed a network connectivity analysis for pedestrian connections to activity centers which will be used to foster more 10-Minute Neighborhoods in Kirkland.

Action EV-6.2 – Utilize the ArcCollector application to map and treatment of noxious weeds

- This action has been completed and the ArcCollector application is being used by staff.

Action EV-10.1 — Updated Urban Forestry Plan

- Numerous SMP actions (including Actions EV-10.3, 10.4, 10.5, 10.9) have been memorialized in the 6-year Urban Forestry Plan. Actions will be completed as staffing and other resources allow.

Action EV-10.5 — Tree planting programs

- Several City-led tree planting incentive programs were conducted during 2021, resulting in tree canopy expansion on private property.

Action SM-1.4 — Innovative solid waste rate structure

- The contract with Waste Management was signed this year with a rate structure that incentivizes waste reduction.

Action SG-2.1 — Sustainability Manager Position

- Although a Sustainability Manager position has not been formally created, City Council approved two years of funding to dedicate a full-time Senior Planner to overseeing sustainability initiatives.

Action SG-4.4 — City organizational equity assessment

- The City spent much of 2021 conducting this assessment that has led to many proposed changes the City government can take that are described in the draft [Diversity, Equity, Inclusion and Belonging 5-Year Roadmap](#).

Action HC-7.1 — Eastside Pathways partner

- The City signed on to this agreement in early 2021 and our partnership will help create better outcomes for children in Kirkland spanning cradle to career.

### **Tracking and Reporting**

A tracking and reporting spreadsheet were established for City staff to provide updates on their progress towards SMP actions. This tool was created in 2021 and became the basis for both quarterly highlights and the annual report card. A more detailed summary of the updates is provided here for reference (see Attachment 2).

### **Quarterly Highlights**

In order to provide more frequent highlights related to the implementation of the SMP, the Council now receives updates that are included as part of the Quarterly Planning Implementation Report. These updates will feature items that staff is working on over a given quarter with a special emphasis on interesting projects or initiatives (including in-progress SMP actions) and provides details of them closer to the time they happen.

### **Annual Report Card**

The annual report card is intended to ascertain progress on SMP actions that has been made over a given year while recognizing that some goals and actions may take significant time to achieve.

### **Internal Implementation Process**

Since a dedicated, 2-year-term Senior Planner position for sustainability initiatives was created in 2022, there will now be an even greater emphasis on reporting early and often regarding SMP progress and there will be more support for staff that are completing SMP updates and actions. During 2022, an internal SharePoint site will be established that has all the critical reporting dates, timelines, and occurrence of regular monthly and quarterly meetings with Senior Planner and staff responsible for completing SMP actions.

This SharePoint site will be place where all the information needed to participate in completing actions will live. It will also function as an important link over time as staff transitions and management changes. These steps are integral to operationalizing the implementation of the SMP and creating the institutional knowledge necessary to ensure that the commitment towards implementing the SMP is itself sustainable.

### **NEXT STEPS**

As part of SMP implementation for 2022, planning is well underway for an Eastside Heat Pump Campaign in Kirkland, Bellevue, Redmond, Issaquah and Mercer Island. The campaign will be conducted with community help and support. [Spark Northwest](#) (a local non-profit) will be running the campaign from June until the end of 2022. This effort will help educate community members about heat pumps, which are all-electric mechanical systems that provide both energy-efficient heating and cooling. A major priority of the heat pump campaign will be equitable access, with the intent of installing a targeted number of these units in affordable housing units in all five cities with a grant program funded by each city.

### **Attachments:**

1. 2021 Sustainability Master Plan Year 1 Report Card
2. 2021 Sustainability Master Plan Detailed updates



# CITY OF KIRKLAND SUSTAINABILITY MASTER PLAN

April 2022

# YEAR ONE REPORT CARD



Prepared by:

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*Left (from top to bottom): Construction of the Totem Lake Connector Bridge on the Cross Kirkland Corridor; Walk n Roll to School Day 2021 at Thoreau Elementary; City Council and team members celebrate opening a new boardwalk at Totem Lake Park.*

*Above (from top to bottom): small local businesses joined Kirkland's Shop Local platform to reach consumers during the pandemic; native plants installed in a Kirkland garden with funding from the City's Yard Smart program.*

# YEAR ONE (2021) OVERVIEW

The Sustainability Master Plan was adopted in December 2020, making 2021 the first year of reporting on implementation progress. Pandemic protocols in place during 2021 were not conducive to in-person meetings and events; however, the City government was resilient and creative, and with the use of technology succeeded in advancing significant SMP actions.

The SMP has over 200 actions spread across eight focus areas. These actions range from low to high levels of effort and cost to implement. The SMP is a living plan that can change over time, but was designed with a loosely 10-year timeframe before a major update would be needed. This does not mean that there will not be course corrections or amendments that will make this master plan more relevant over the coming years. It is expected that there will be changes to the SMP that acknowledge changes in legislation, new technology or other process improvements.

In addition to quarterly reports of progress on the SMP, this first report card shows what City Council, City staff, and the larger community are working on to create collective impact and make Kirkland an even more sustainable, equitable and inclusive community. Over 2022, staff will work with subject matter experts to integrate more actions of the SMP into work plans, and build sustainable decision-making into City processes over the coming years so that sustainability becomes an enduring organizational trait.

## Completed actions

Nine distinct actions were completed in 2021:

- **Action BI-2.3** – High Performance Building Standards
- **Action LT-2.1** – New pedestrian connections aligned with the 10-Minute Neighborhood concept
- **Action EV-10.1** – Updated Urban Forestry Plan
- **Action EV-10.5** – Tree planting programs
- **Action EV-6.2** – Map and track noxious weed treatment
- **Action SM-1.4** – Innovative solid waste rate structure
- **Action SG-2.1** – Sustainability management
- **Action SG-4.4** – City organizational equity assessment
- **Action HC-7.1** – Eastside Pathways partner

## 2021 in numbers



**13.5% of electricity customers in Kirkland subscribe to green energy, an 8% increase over 2020**



**Nearly 400 solar arrays are generating power in Kirkland**



**62 Yard Smart Rain Rewards projects were installed at Kirkland residences**



**More than 1,000 trees were planted in Kirkland parks and natural areas**



**250 food scrap pails were delivered to residents' doorsteps to make composting food easy**



**19 businesses and apartments started composting food scraps**

# YEAR ONE (2021) PROGRESS

Action status by focus area. In progress actions indicate one-time actions that staff have started to work on. Ongoing actions indicate recurring and regularly occurring activities that have begun. Ongoing activities encompass multiple services and projects, and are likely to remain ongoing for the entire time period, while actions in progress have a defined completion point.

## Energy Supply and Emissions (20 actions)



■ 3 actions ongoing   □ 17 actions not started

## Buildings and Infrastructure (13 actions)



■ 1 action completed   ■ 1 action in progress   □ 11 actions not started

## Land Use and Transportation (21 actions)



■ 1 action completed   ■ 14 actions ongoing   □ 6 actions not started

## Natural Environment and Ecosystems (37 actions)



■ 3 actions completed   ■ 24 actions ongoing and in progress   □ 11 actions not started

## Sustainable Material Management (17 actions)



■ 1 action completed   ■ 10 actions ongoing and in progress   □ 6 actions not started

## Sustainable Governance (35 actions)



■ 2 actions completed   ■ 8 actions ongoing and in progress   □ 25 actions not started

## Sustainable Business (13 actions)



■ 3 actions ongoing   □ 10 actions not started

## Healthy Community (40 actions)



■ 1 action completed   ■ 10 actions ongoing and in progress   □ 29 actions not started



## ENERGY SUPPLY + EMISSIONS

### City energy supply

The electricity for City Operations is provided by a renewable energy contract through Puget Sound Energy called **Green Direct**, which provides 100% wind and solar energy. The City recently extended this contract's duration from 10 to 20 years.

In 2021, the City purchased 4,840 megawatt hours (MWhs) of electricity using Green Direct. Using green energy avoided 4.2 million pounds of CO<sub>2</sub> equivalent (CO<sub>2</sub>E) emissions, equal to the pollution generated by burning 2.1 million pounds of coal or emissions from driving 417 gas-fueled cars for a year.

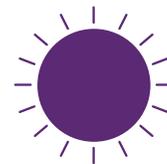
### Community energy supply

Out of 44,306 commercial, industrial, and residential electricity customers, 4,846 (10.9%) subscribe to PSE's **Green Power program**. In addition, 1,156 customers are using the **Solar Choice** program. Combining Green Power and Solar Choice purchasers (6,002) accounts for 13.5% of Kirkland community accounts.

**Green Direct** is a contract between the City of Kirkland and Puget Sound Energy (PSE) to provide 100% renewable electricity for Kirkland City operations that is produced by wind and solar farms located in Southwest Washington.

**Green Power** is a PSE program that purchases Renewable Energy offsets equivalent to the user's electricity use. Since its portfolio comes from 96.5% renewable sources, it substantially offsets greenhouse gas (GHG) emissions generated compared to PSE's standard portfolio which is about 66% fossil fuel derived.

**Solar Choice** is similar to Green Power, but it allows users to offset their electricity use with regionally-produced solar energy.



**Kirkland had 394 solar arrays by the end of 2021, with a projected annual generation of nearly 4 million kWh**



## BUILDINGS + INFRASTRUCTURE

### Building standards

The City has completed **Action BI-2.3** by adopting **High Performance Building Standards** that offset many of the environmental impacts from larger development projects and ensure that the buildings constructed are energy efficient and primarily use electricity for their operations.

### Green Building Program

The City has nearly completed **Action BI-1.1** to revamp its incentivized **Priority Green Building Program** to include all building types and provide expedited permit review for projects of all sizes that are independently certified to be energy and resource efficient.

### Decarbonization

Both **Actions BI-2.3** and **BI-1.1** are part of a city-wide decarbonization effort to reduce energy use and promote all-electric buildings that consume small amounts of fossil fuels. These actions are incremental steps necessary to reduce the community's carbon emissions and to help achieve aggressive greenhouse gas (GHG) reduction goals.

**What's next?** The eastside community is planning a heat pump adoption campaign with a special emphasis on providing equitable access to residents of affordable housing.



## Greenways

Kirkland's first Neighborhood **Greenways**, the North and South Rose Hill Neighborhood Greenways, were constructed in 2021. These are the first permanent Greenways on the Eastside.

Rapid flashing beacons were installed at Rose Hill Elementary School and NE 112th Place's intersection with 124th Avenue NE. A diverter at 128th Avenue NE's intersection with NE 100th Street allows people riding bikes to continue straight through the intersection, while drivers must turn right onto NE 100th Street.

**Greenways** offer quieter, safer routes for people to ride bicycles or walk to destinations. They support the City's vision for a multi-modal transportation network that gives residents more options for getting around.



*Sculptures enhance the North Rose Hill Greenway, created using the 1% for the arts allocation*

**What's next?** The City will conduct outreach and complete design on the Stores to Shores Greenway between Totem Lake and downtown, with construction likely completed in 2024.

# NATURAL ENVIRONMENT + ECOSYSTEMS



## Trees

More than a thousand Green Kirkland Partnership volunteers planted 1,012 trees at parks and natural areas in 2021. That's the most in a year since 2014! Residents also planted 135 trees on their properties using rebates from the Stormwater Division.

Trees help prevent flooding in our neighborhoods, provide shade for our homes, and help filter pollutants to provide clean water for Lake Washington. As trees grow and mature, their environmental benefits increase; this is why it is so important to retain existing trees in addition to planting new ones.

## Park access

The City acquired a parcel that will support a future connection between Juanita Heights Park on Goat Hill and Juanita Bay, which will increase park access and walkability for residents.



*Volunteers at a Green Kirkland Partnership event*



*Vision for a Finn Hill trail system*



# SUSTAINABLE MATERIALS MANAGEMENT

## Reuse and waste prevention

Solid Waste partnered with the Capital Improvement Program to install water bottle filling stations at the new Totem Lake Park and updated Juanita Beach Park. An educational campaign over the summer encouraged residents to bring their own bottles and promoted the environmental benefits of reuse. The team plans to install several additional filling stations at parks in 2022.

Americans drink more bottled water than any other drink, even soda! Each American drinks an average of 44 gallons of bottled water a year. Compared to tap water, drinking a single-use bottle of water produces three times the greenhouse gas emissions and uses three times the energy. All the bottled water Americans drank in 2016 produced as many greenhouse gas emissions as 2.5 million passenger cars.

Even if the bottles get recycled – and only a quarter are recycled in the US – energy and resources are still required to turn it into a new product. A reusable bottle can be used hundreds of times. Washing a reusable bottle uses less resources than making new.

**What's next?** Kirkland has partnered with the cities of Bellevue, Redmond and Bothell to promote waste prevention and help food service businesses switch from single-use products to durable alternatives.



*A water bottle filling station at Juanita Beach Park lets visitors prevent waste*



# SUSTAINABLE GOVERNANCE

## Sustainability Manager

Although a Sustainability Manager position has not been formally created, City Council approved two years of funding to dedicate a full-time Senior Planner to overseeing sustainability initiatives.

## Equity and social justice

A consultant worked with City staff and community members to complete an organizational equity gap assessment for the City. The consultant worked closely with staff on a draft **Diversity, Equity, Inclusion, and Belonging (DEIB) Five-Year Roadmap**, a comprehensive document that identifies over 60 objectives that will guide the City's DEIB work for years to come. The Roadmap is a more formal starting point for these efforts and is considered a living document that will be updated and evolve over time.

**What's next?** Sustainability management will develop a charter for the sustainability program to memorialize practices, develop a process and cadence for reporting on actions, and improve citywide coordination of sustainability efforts.

Sustainability management is facilitating adoption of a Carbon Counting Calculator by the Capital Improvement Program to integrate embodied carbon and operational carbon into planning City buildings and infrastructure projects.



## Supporting local businesses

Using federal CARES funding, the Shop Local Kirkland (SLK) initiative was launched in November 2020 to provide the lowest-bar entry to digital enterprise for Kirkland's smallest businesses, and a no-contact avenue to reach customers and consumers during the global pandemic and beyond. The initiative registered more than 500 businesses from launch through 2021, and published more than 300 of those businesses as 'digital storefronts' on [shoplocalkirkland.com](http://shoplocalkirkland.com).

Nearly 50% of Kirkland's 6000+ businesses are home occupancy licensed, and many of Kirkland's smallest businesses do not have a web presence. The SLK initiative offers no-cost digital presence for businesses and supports Shop Local with City marketing and promotion efforts that connect businesses to customers.



**What's next?** Utilizing federal ARPA funding, Shop Local Kirkland is undergoing a total redevelopment effort, expected to conclude in early summer 2022.

# HEALTHY COMMUNITY



## Water conservation

Kirkland's **Yard Smart Rain Rewards** program offers technical assistance and rebates to property owners to install projects like native landscaping and cisterns to conserve water by reducing watering needs, prevent flooding, and protect creeks and lakes from pollution.

- 8,355 gallons of new cistern capacity created in 2021
- 28,702 sq ft new native landscaping installed in 2021



*Cisterns harvest water for later use in the garden*

## Accessibility in parks

Totem Lake Park was constructed and expanded with an inclusive, accessible playground and boardwalk, improving park access in Totem Lake.

**What's next?** Parks & Community Services is creating an **Americans with Disabilities Act (ADA) Transition Plan** that identifies and prioritizes accessibility changes needed for participation.



*The new Totem Lake Park offers accessible play*



Along with the City's actions, community participation plays an essential role in achieving sustainability. Volunteers are vital for restoring Kirkland's natural areas. The choices residents and businesses make to help the environment add up, like adding native plants to their gardens, planting a tree, and dropping off paint for recycling. Community initiatives can also complement actions the City is taking.

## Community initiatives

In fall 2021, community members approached City Council with a request for funding for a campaign to promote automobile anti-idling that would leverage volunteer efforts and coordination. This campaign complements Action SG-1.1 in the Sustainability Master Plan, which calls for the City to evaluate an internal anti-idling policy. Along with this funding, City staff have joined forces with community volunteers to advise campaign development and support messaging.

**What's next?** The anti-idling campaign will expand during 2022, with presentations offered to churches and other community organizations and a pledge campaign to encourage community members to turn off their car when not traveling.

Students will complete a six-month pilot of the Sustainable Neighborhoods Ambassador Program (SNAP) using funding from City Council, Cascade Water Alliance, and the King County WaterWorks Grant.

The eastside community is planning a heat pump adoption campaign with a special emphasis on providing equitable access income qualified households. This pilot project helps educate all community members about the benefits of heat pumps that can provide homes with energy efficient heating and cooling. This campaign prioritizes helping those that live in affordable housing within Kirkland by providing a grant program for income qualified participants to get a heat pump installed in their homes.



*Green Kirkland Partnership volunteer scoops mulch*



*Volunteer drivers for the Community Van let groups get around for the cost of a bus trip*



*Volunteers glean fruit at McAuliffe Park's orchard*



Left (from top to bottom): recycling at Juanita Beach Park's picnic shelter; staff evaluate stream conditions; Winter Market at Kirkland Urban.

Above (from top to bottom): people biking on the Cross Kirkland Corridor; stormwater vault being installed at the Willows Road Regional Trail Connection project.

Action	Action Description	Status	Narrative Status	Upcoming Information
<b>ES - Energy Supply and Emissions</b>				
ES 1.3	Lobby State Legislature to enact laws to further reduce GHG emissions	Ongoing		
ES-1.4	Update Kirkland comprehensive plan climate goals regularly to be consistent with updated state and regional goals	Ongoing		
ES-1.5	Support state or regional clean fuel standard	Ongoing		
<b>BI - Building &amp; Infrastructure</b>				
BI 1.1	Incentivize net zero energy buildings through Priority Green Building program	In progress	Staff is working in Q1 2022 to launch the new voluntary incentive Priority Green Program for all building types. The launch for this enhanced program is beginning of Q2 2022.	
BI 2.3	Encourage buildings as part of Council-approved Master Plans/ Development Agreements / Planned Unit Developments to be high performing green buildings, charger ready	Completed	Staff has been working over the last few months in developing code language which will require green building requirements including high performing net-zero energy ready buildings for major developments that seek additional development capacity. The code amendment was adopted in April 2022.	

Action	Action Description	Status	Narrative Status	Upcoming Information
<b>LT - Land Use &amp; Transportation</b>				
LT-2.1	Align new pedestrian connections with the 10-Minute Neighborhood concept	Completed	The Active Transportation Plan conducted a network connectivity analysis of pedestrian access that includes access to activity centers that overlaps the 10-minute neighborhood concept.	
LT-4.2	Strive for platinum status with Walk Friendly Communities	Ongoing	This will be a strategy for the Active Transportation Plan update (to go to Council in Spring/ Summer 2022).	
LT-4.4	Educate more students about walking and biking	Ongoing	Staff has engaged with school resource officers about opportunities to include walk and bike education into curriculum. Staff have additional engagement and education strategies but this has not started yet, mostly due to COVID pandemic and giving space for schools to get back to 'normal'.	
LT-4.5	Increase the number of students walking, biking, carpooling and taking the bus to school	Ongoing	Staff from multiple divisions are collaborating to implement the Safer Routes to School Action Plans adopted in September 2020. Contributed to coordination of Walk and Roll to School Day events in October 2021 at four elementary schools.	
LT-4.6	Make it safe and easy for children to walk, bike and take the bus to school and other destinations	Ongoing	Staff from multiple divisions are collaborating to implement the Safer Routes to School Action Plans adopted in September 2020. Contributed to coordination of Walk and Roll to School Day events in October 2021 at four elementary schools.	
LT-4.7	Prioritize walk and bike access to high frequency transit	Ongoing	This is a prioritization measure for the Active Transportation Plan update (to go to Council in Spring/ Summer 2022).	
LT-4.8	Update markings for all bicycle lanes that are not protected, consistent with current standards	Ongoing	This will be a strategy for the Active Transportation Plan update (to go to Council in Spring/ Summer 2022).	
LT-4.9	Complete the Greenway network by 2030	Ongoing	Construction of the Rose Hill Greenway is almost complete. Completing the full network is a strategy for the Active Transportation Plan update (to go to Council in Spring/ Summer 2022).	
LT-4.10	Develop criteria for alternative sidewalk configurations for safe pedestrian travel when traditional sidewalks are infeasible	Ongoing	This will be a strategy for the Active Transportation Plan update (to go to Council in Spring/ Summer 2022).	
LT-5.1	Promote public transit use through incentives and a transportation demand management (TDM) program	Ongoing	Kirkland Green Trip is a TDM program that promotes public transit use through incentives.	

Action	Action Description	Status	Upcoming Information
LT-5.2	Improve transit access through first-last mile strategies	Ongoing	Working with ST and Metro on first/last mile strategies related to Eastlink Restructure, Rapid Ride K-Line and Sound Transit STRIDE.
LT-5.3	Work with regional transit agencies to provide an equitable and inclusive access to fare payment options	Ongoing	Continue to work with Metro and Sound Transit to provide opportunities within Kirkland (at City Hall or at events) for people to better access regular and reduced fare ORCA cards on-site and continue to work with Metro, Sound Transit and transit related regional policy groups on improving how people can acquire ORCA cards, particularly reduced fare cards, through a more streamlined and accessible process.
LT-6.1	Encourage carpooling and using shared mobility by providing incentives and ride-matching tools	Ongoing	The Kirkland Green Trip program, including Rideshare Online, encourages carpooling and using shared mobility by providing incentives and ride-matching tools.
LT-7.1	Create partnerships with regional transit agencies and explore new public/private-partnerships	Ongoing	Working with Metro to identify speed and reliability projects (and to secure funding) such as transit queue jumps on 108th. Also working with Metro and ST for transit improvements in Totem Lake area along 128th St Corridor.
LT-7.2	Innovate transit solutions along Cross Kirkland Corridor and connection from I-405 to downtown Kirkland	Ongoing	Connections from downtown to I-405 are being planned for as part of 85th subarea plan. Council also recommended a CKC Action Plan which will be a recommendation in the Active Transportation Plan.

Action	Action Description	Status	Narrative Status	Upcoming Information
<b>EV - Natural Environment &amp; Ecosystems</b>				
EV-1.1	Continue NPDES permit compliance	Ongoing	Continue compliance with the NPDES Stormwater Permit. Program areas include Stormwater Planning, Education and Outreach, Public Involvement, Stormwater System Mapping, Spill Response, Controlling Runoff from Construction, Development, and Redevelopment, Operations and Maintenance, and Source Control.	The City maintained strong compliance with the NPDES permit in 2021; some of those actions included inspecting over 6,000 catch basins (inspected all in the last two years- over 16K), inspecting all stormwater treatment and flow control facilities (718), following up on over 300 reported spills, reviewing 606 development site plans for compliance with stormwater requirements and inspecting all active construction sites to ensure Best Management Practice (BMP) implementation to prevent erosion. Stormwater and watershed health education was provided to ~600 students.
EV-1.2	Proactively identify and reduce pollutants of concern in Kirkland's impaired streams	Ongoing	Conducting weekly monitoring in Juanita Creek and its tributaries for bacteria, as well as monthly monitoring in all creeks for water quality standards.	Create an online, interactive map and data dashboard for each watershed in the City. Include stream health data that is currently being collected. Online tools will engage community members, make data accessible, and raise awareness of watershed health.
EV-1.3	Assess and prioritize watersheds and actions that will improve water quality	In progress	Staff have begun gathering existing data from internal and external sources to assess the watersheds in Kirkland	Staff will continue to gather and collate data related to watersheds in Kirkland and determine a priority watershed for future stormwater management actions and programs.
EV-2.1	Fund projects to make culverts fish passable	Ongoing	Continuing to look for grant opportunities to fund projects for fish passable culverts. Added high priority culverts to our list of capital projects to be prioritized as part of the Surface Water Master Plan Update. These high priority pipes were identified from either known issues or our culvert assessment that was done as part of the 2014 master plan.	Specific fish passable culvert projects will be identified as part of the upcoming 2023 - 2028 CIP Update.
EV-2.2	Develop action plans for stormwater retrofit and water quality management strategies	In progress	Retrofit plans have been created for the Totem Lake and North Rose Hill sub-basins in past years. A third retrofit planning process is underway now for the Cedar Creek sub-basin of Juanita Creek. A retrofit project within Spinney Homestead Park has been designed to 30% detail and a grant application for the remainder of the design funds has been submitted to the Department of Ecology.	Continue planning for the Cedar Creek sub-basin of Juanita Creek and seek out grant funding opportunities for projects identified through past planning efforts.
EV-2.3	Actively involve the community in the protection of Kirkland's aquatic resources	Ongoing	Continuing to provide behavior change and awareness outreach focused on watershed protection. Continuing to provide stewardship opportunities including storm drain marking and pet waste station adoption. Partnered with Sno-King Water Watchers program to recruit volunteer stream monitors in Kirkland.	

Action	Action Description	Status	Narrative Status	Upcoming Information
EV-3.1	Inspect and maintain public stormwater infrastructure	Ongoing	Continuing to inspect and maintain stormwater infrastructure.	Evaluating metrics as part of Surface Water Master Plan and potential staffing or equipment needs.
EV-3.2	Proactively replace aging stormwater infrastructure	In progress	Creating a Pipe Criticality tool as part of the Surface Water Master Plan.	Finalizing the tool in 2022 as part of Surface Water Master Plan that will help guide upcoming projects.
EV-4.1	Evaluate stormwater infrastructure capacity and address capacity problems	Ongoing	Finalized first project with the Station Area 85th Plan. This project evaluated built out conditions for one of the basins that drains through the Station Area Plan to identify whether build out conditions will impact the existing stormwater infrastructure.	Working on next location at Goodwill Hill to evaluate capacity in the main line.
EV-4.2	Construct flood reduction projects for problems that occur more often than every 10 years	Ongoing	Working on CIP update as part of the Master Plan and prioritizing flooding projects.	Newly prioritized projects for the 2023 - 2028 CIP
EV-4.3	Review development proposals for potential flood and downstream impacts and require mitigation	Ongoing	Continuing to review development proposals. Created a Drainage Concerns layer that should go live in 2022 to identify locations that developments should be aware of and potentially mitigate as part of development.	Will be required to update the surface water design manual as part of our NPDES permit requirements by June 30, 2022
EV-5.1	Recruit and train additional Stewards to lead volunteer habitat restoration events in parks and natural areas	Ongoing	Seven additional Stewards recruited and trained in 2021.	
EV-5.2	Grow the Green Kirkland Partnership volunteer force at a rate that meets or exceeds the City's population growth	Ongoing	Anticipate 800+ unique volunteers in 2021.	This goal was slowed by the need to implement pandemic restrictions on large events.
EV-5.3	Contract a year-round Washington Conservation Corps crew to work in critical areas in all City parks and natural areas	Ongoing	Contract complete for the 2021-2022 year.	WCC secured through October 2022. The 2022-2023 contracting period starts in spring 2022.
EV-6.1	Update City IPM policies and practices, prioritize treatment locations, and ensure maintenance occurs as needed	Ongoing	We are following City IPM policies to treat and track noxious weeds on City lands managed by Parks.	

Action	Action Description	Status	Narrative Status	Upcoming Information
EV-6.2	Utilize the ArcCollector application to map and track the treatment of noxious weeds requiring treatment	Completed	ArcCollector application implemented and in active use by city staff.	
EV-7.1	Explore designating all parks with playgrounds as synthetic pesticide-free parks	Ongoing	Per approved City IPM policy, synthetic pesticides are only used to treat noxious weeds and aggressive stinging insects and are not used in or near playgrounds (at any time) or active use areas between May and September.	
EV-7.4	Regularly evaluate alternative products instead of synthetic pesticides	Ongoing	Parks completed a 1 year trial of organic pesticides.	
EV-7.5	Explore changes to maintenance standards to avoid use of synthetic pesticides	Ongoing		
EV-8.1	Proactively seek and acquire parkland to secure new parks	Ongoing	Acquired parcel in Juanita Heights to increase access to parkland.	
EV-8.2	Achieve Intent of PROS Plan goal which ensures all community members are within 1/4 mile or 10-minute walk to a park	Ongoing	Totem Lake Park was constructed and expanded, with an inclusive, accessible playground and boardwalk, improving park access in the rapidly growing Totem Lake neighborhood.	
EV-9.2	Add an accessibility and inclusivity capital project fund to the Parks and Community Services capital improvement program	In progress		Funding has been added to CIP for ADA transition plan.
EV-9.3	Update the Park, Recreation and Open Space Plan	In progress		
EV-10.1	Update the 2020-2026 Urban Forestry Six Year Work Plan with Actions EV-10.2 through EV-10.10	Completed	All or most actions were included in the work plan.	
EV-10.5	Develop and implement tree planting programs to increase tree canopy cover on private and public property	Ongoing	The City provided rebates for planting 135 trees during spring and summer 2021. This action is included in the Urban Forestry team's 2021-2026 Work Plan, though is currently only partially funded.	
EV-10.9	Create comprehensive inventory of trees in City spaces and city-wide tree planting program with target areas and goals for canopy expansion in public spaces and residential areas.	Ongoing		This major initiative will be launched in 2022.

Action	Action Description	Status	Narrative Status	Upcoming Information
<b>SM - Sustainable Materials Management</b>				
SM 1.1	Evaluate waste generation targets annually	Ongoing	Kirkland's 2022 waste generation per person per week was 19.4 lbs. Goal is 20.4 lbs.	
SM 1.2	Reduce consumer use of common single-use items	In progress	Kirkland is partnering with the Cities of Redmond, Bellevue, and Bothell for a regional reuse campaign in 2021-2023 using grant funds.	
SM 1.3	Improve waste prevention and recycling in City operations, facilities, and at sponsored events	Ongoing	City Hall signage and bins recently updated, Fire Station 24 set up. Have not resumed internal City event efforts since pandemic.	
SM-1.4	Set innovative rates to incentivize waste reduction and recycling and composting	Completed	City Council directed staff to retain the linear solid waste rate structure designed to encourage waste reduction and recycling.	
SM 2.1	Support repair and reuse activities	Ongoing	Our recycling team worked with the Capital Improvement Program and Parks to have water bottle filling stations installed at two parks in 2021, with more planned at future projects.	Using grant funding, staff plan to install two additional water bottle filling stations at parks in 2022.
SM 2.2	Evaluate waste disposal progress annually	Ongoing	Kirkland's 2022 waste disposal per person per week was 8.2 lbs. Goal is 5.1 lbs.	
SM 3.3	Provide technical assistance and incentives to promote durable products at food service businesses	In progress		In 2022, staff plan to hire a consultant to provide technical assistance to businesses and provide mini grants to replace single-use products with durable products. Staff plan to provide education to food service businesses regarding the state's policy.
SM 4.1	Increase the efficiency and reduce the price of curbside and multifamily collection of bulky items	In progress	The new contract with WM, which takes effect July 1 2022, reduces the price of curbside bulky pickups, provides one free pickup to each house each year, and allows multifamily customers to use bulky pickup services.	
SM-4.7	Increase multi-family and commercial recycling	In progress	In 2022, staff plan to hire a consultant to provide technical assistance to multifamily properties to increase recycling and reduce contamination.	
SM 5.1	Develop infrastructure and increase outreach and incentives to increase recycling of organics	In progress	Solid Waste staff delivered about 250 food scrap compost pails to residents' doorsteps during 2021.	In 2022, staff plan to hire a consultant to provide technical assistance to multifamily properties to increase participation in the commercial food scrap program.
SM 6.1	Support legislative efforts and remain active in groups	Ongoing	Current active member of Northwest Product Stewardship Council and supportive of Extended Producer Responsibility (EPR) legislation.	

Action	Action Description	Status	Narrative Status	Upcoming Information
<b>SG - Sustainable Government</b>				
SG-1.3	Identify tools such as a Carbon Counting Calculator that can be used for all City building and development projects to ensure the use of low carbon methods and materials	In progress	Staff have identified an EC3 Tool ( <a href="http://buildingtransparency.org">buildingtransparency.org</a> ) as an embodied carbon construction calculator that could be used during building and development project design and specified in procurement.	
SG-1.5	Adopt a policy for fleet purchases for fully electric and hybrid electric vehicles depending on technology availability and city needs; and actively seek grants to move toward an all-electric City fleet and supporting charging station infrastructure	In progress	Additional charging stations were installed at Kirkland City Hall in April 2021 to allow the expansion of the city's electric vehicle fleet.	Funding has been allocated for an Electric Vehicle Master Plan.
SG-1.10	Explore reduction of or elimination of gas-powered landscaping equipment for City operations	Ongoing	Public Works Maintenance has been testing electric models of leafblowers and other equipment. Parks Maintenance uses electric leafblowers, chainsaws and other equipment when appropriate and suitable for the work.	
SG-1.11	Explore creating an anti-idling policy for City vehicles	In progress	Staff have begun work on a Legislative Request Memo.	
SG-2.1	Appoint a sustainability manager to coordinate implementation of the Sustainability Master Plan	Completed	Although a Sustainability Manager position has not been formally created, City Council approved two years of funding to dedicate a full-time Senior Planner to overseeing sustainability initiatives.	
SG-4.1	Implement a system of civic engagement that more closely coordinates activities across various City departments	Ongoing	The Outreach & Engagement Team, consisting of outreach staff from nearly all departments, has been meeting monthly throughout 2021 and will continue to meet in 2022.	
SG-4.2	Develop a process to identify and dismantle unintended barriers to public participation	Ongoing	This is ongoing work. Many specific objectives and next actions are defined in the draft Diversity, Equity, Inclusion, and Belonging 5-Year Roadmap.	
SG-4.3	Identify and empower trusted messengers in the community to serve as liaisons between the City and communities that have historically been underrepresented	Ongoing	City staff have been establishing relationships with formal and informal groups that can serve as trusted messengers to their communities. This is defined in the draft Diversity, Equity, Inclusion, and Belonging 5-Year Roadmap.	
SG-4.4	Perform a comprehensive city organizational equity assessment to identify gaps in diversity, equity, and inclusion in all areas of City policy, practice and procedures.	Completed	The City's equity consultant delivered the executive findings of the organizational equity assessment in October 2021. The DEIB 5-Year Roadmap, based on the equity assessment, was presented to Council during a January 2022 study session. Council is anticipated to adopt the Roadmap in spring 2022.	

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SG-4.5	Provide opportunities for public input that do not require presence at a particular time or place	Ongoing	The City routinely provides ways to provide comments, answer surveys, and otherwise give input to Council and staff on a variety of topics. Staff are exploring ways to implement asynchronous town halls and other immersive experiences that mimic a meeting but are available at any time.	
SG-5.2	Maintain support for Kirkland neighborhood associations, including efforts to expand active participation from underrepresented segments of the community	Ongoing	This is ongoing work. This is also defined in the draft Diversity, Equity, Inclusion, and Belonging 5-Year Roadmap.	
SG-6.2	Educate residents and businesses on actions they can take to increase personal and physical earthquake resilience	Ongoing	The Office of Emergency Management (OEM) facilitated participation in the Great ShakeOut Drill for staff and the community, including presenting an online session of personal earthquake preparedness training.	OEM is redesigning and launching an updated Map Your Neighborhood program in 2022. Community Emergency Responder Training (CERT) courses are scheduled to restart in Spring 2022.
SG-6.3	Identify options and actions to increase water reservoir stability and shaking resilient water mains	In progress	A project is in pre-design phase with the goal of improving the seismic resiliency of the south reservoir through structural updates to meet current standards. The north reservoir had its last structural update in 2010. The 2019 Water System Plan Extension and Model Update includes tasks to perform a seismic analysis of the water system to suggest areas of vulnerability, add seismic vulnerability to water system CIP priority ranking and add earthquake resistant piping (ERDIP) to the CIP projects in identified vulnerable areas. The I-405 and NE 85th St BRT Station and Interchange Project will include replacement of our water line crossing with the City's first ever ERDIP. The City is finalizing the water line replacement contract as of January 31.	CIP will work with owners and stakeholders to improve reservoir stability and resilient water mains. Funds have been added to the CIP.
SG-6.4	Continue mitigation projects intended to reduce the risk of erosion, landslide, and urban flooding	Ongoing	Working on CIP update as part of the Surface Water Master Plan and prioritizing water quality, habitat and flooding projects.	
SG-6.5	Focus on efforts to address and mitigate climate change impacts	Ongoing	Working on CIP update as part of the Surface Water Master Plan and prioritizing flooding projects.	
SG-6.6	Implement hazard mitigation strategies through funding, resources, staff support and partner agencies	Ongoing	<p>Fire Station construction and remodel designs are incorporating mitigation and redundancy strategies for sustainment of essential services.</p> <p>Mass Care (Sheltering) capability is being enhanced through planning and procurement of supplies and shelf stable food.</p> <p>Public education campaigns are being implemented to educate the public on flood mitigation measures they can take to protect their home and the environment.</p>	<p>OEM, Public Works, and Parks will exercise plans and resources related to water disruption, mass care, and incident management in 2022 validating strategies and actions related to hazard mitigation.</p> <p>Water exercise planned with EPA and regional partners. Mass care exercise planned with community volunteer teams and King County.</p>

Action	Action Description	Status	Narrative Status	Upcoming Information
<b>SB - Sustainable Business</b>				
SB-1.1	Assist Kirkland businesses in accessing resources to follow environmental best practices	Ongoing	An environmental assistance flyer listing resources and contact info has been added to the new business packet.	Solid Waste, Surface Water, and Transportation will be doing direct outreach to businesses with consultants in 2022.
SB-1.2	Conduct outreach to all non home-based businesses, ensuring all have sufficient recycling capacity	Ongoing	Contractor to be hired in 2022 to do outreach to businesses, focusing on waste reduction and replacement of single use. Will also check for recycling. New WM contract to start July 1 2022 and will include visits to all businesses to ensure sufficient capacity.	
SB-1.3	Provide hands-on technical assistance to potential pollution generating businesses to reduce pollution entering the stormwater system	Ongoing	Inspected 58 businesses in 2021, providing technical assistance to reduce sources of pollutants.	
<b>HC - Healthy Community</b>				
HC 1.1	Develop a funding plan for development and operation of new P-Patches and community gardens	In progress	Identified in new PROS Plan as a community priority and will be incorporated into the CIP	
HC-1.4	Build educational and support programs to teach residents how to grow food and reduce water and pesticide usage	In progress	Parks has partnership with Tilth Alliance at McAuliffe Park for education about gardening/food/water	
HC-4.1	Increase efficiency of water fixtures through incentive programs, education, legislation and partnerships	Ongoing	Cascade Water Alliance's partnership with Puget Sound Energy placed 159 new high efficiency clothes washers through their retail rebate program in Q4 2021. CWA's multifamily program placed 205 high efficiency water faucet fixtures in Kirkland multifamily homes in Q4 2021.	
HC-4.2	Develop water supplies for community use: reclaimed water, harvested water and grey and black water	Ongoing	1,440 gallons of new cistern capacity added to private properties through the yard smart rain rewards rebate program in 2021.	Cisterns will continue to be offered in the yard smart rain rewards program in 2022.
HC-4.3	Intensify water conservation effort through public/private partnerships and outreach and education	Ongoing	Cascade Water Alliance on Kirkland's behalf in 2021 made a total of 109 conservation education presentations in Kirkland schools, reaching 2,372 students.	
HC 4.6	Create education program for water-use best practices addressing irrigation overuse and household consumption	Ongoing	Cascade Water Alliance on Kirkland's behalf in 2021 made a total of 109 conservation education presentations in Kirkland schools, reaching 2,372 students. CWA also provided 13 remote gardening classes in 2021 and reached over 2,000 people.	

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HC 6.1	Hire or contract a homelessness and housing outreach specialist to connect unhoused residents to services and housing	Ongoing	Contracted with Catholic Community Services for a street outreach clinician. The position is currently open.	
HC 6.2	Secure funding for more shelter and day center services for all groups experiencing homelessness on the Eastside	Ongoing	City Council utilized Human Services Reserve and CDBG-CV funding to increase support to agencies providing shelter and day services to people experiencing homelessness.	
HC 7.1	Sign on as an Eastside Pathways partner to attain better outcomes for children, cradle to career	Completed	The Mayor signed the partnership agreement in early 2021.	
HC 8.2	Explore partnership programs to implement community learning and dialogue around diversity, equity and inclusion	Ongoing	The City funded a racial equity dialogue series, Kirkland Talks About Racism, which had four sessions in 2021. Additional opportunities are currently on hold.	
HC 9.1	Continue network membership in Welcoming America and Cities for Citizenship	Ongoing	The City maintains membership with Welcoming America.	
HC 9.2	Seek Welcoming Certification from Welcoming America	Ongoing	The City continues to explore a regional approach to achieving Welcoming Certification with neighboring cities.	
HC 9.3	Create partnership programs to strengthen relationships between the City and immigrant and refugee communities	Ongoing	This is ongoing work. Many specific objectives and next actions are defined in the draft Diversity, Equity, Inclusion, and Belonging 5-Year Roadmap.	
HC-10.1	Identify, develop, and implement actions to help end interpersonal, institutional, and structural racism, increase social equity, and support environmental justice in Kirkland	Ongoing	This is ongoing work. Many specific objectives and next actions are defined in the draft Diversity, Equity, Inclusion, and Belonging 5-Year Roadmap.	
HC 12.1	Complete an athletic field study that can identify a plan for system wide field improvements or acquisitions	In progress	Consultants are currently writing the athletic field study.	
HC-13.3	Evaluate existing recreational programs and facilities to ensure equity for all populations and that they are serving the diverse needs in our community	Ongoing		Current initiative was to expand the scholarship program to ensure access regardless of socioeconomic status