



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
TM-1	Develop a Transportation and Mobility Strategy	Increase opportunities for active mobility and transit, and prioritize connectivity, safety and accessibility	M	A	1-2 years
TM-2	Enhance and expand the existing multi-use trail network to connect neighbourhood centres and transportation corridors	The enhanced trail system will offer safe and attractive recreational and mobility routes for pedestrians and cyclists	M	A	1-2 years
TM-3	Accelerate sidewalk infrastructure	Prioritize projects adjacent to schools and community centres	M		1-2 years
TM-4	Create a Township-wide Transportation Demand Management (TDM) Program	Transportation Demand Management (TDM) is a set of strategies aimed at shifting from single-occupant vehicle trips to other sustainable mobility options, such as transit, cycling, walking or shared vehicles	M		3-6 years
TM-5	Improve bike and e-bike network	Continue to advance cycling network and add plan for electric and/or shared little vehicles	M		1-2 years
TM-6	Design and implement a shared bike/e-bike pilot		M		1-2 years
TM-7	Advocate for expansion of the transit network	Include an update of Translink's South of Fraser Area Transit Plan (SOFATP)	M		1-2 years
TM-8	Implement measures to prioritize transit in traffic	Reduce transit travel times with transit-only lanes, queue jumps, transit-priority signals, bus bulbous/boarding islands etc.	M		1-2 years
TM-9	Improve transit stops and accessibility		M		1-2 years
TM-10	Require multimodal infrastructure in all new ICI developments	E.g. end of trip bike facilities, car share spaces, etc.	M		1-2 years
TM-11	Design curb-use for multiple mobility types	Strategically design and allocate curb space for a variety of modes, including transit stops, vehicle loading, bicycle facilities, etc.	M		3-6 years
TM-12	Expand online services to reduce travel to and from Township facilities	E.g. Increase online payment options and permit applications, improve teleconference capabilities, expand remote work opportunities for staff	M		1-2 years
TM-13	Accelerate implementation of traffic calming measures to encourage active mobility	Implement in areas where most warranted	M		1-2 years
TM-14	Facilitate car sharing companies to expand into Langley		M		1-2 years



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			M - Mitigation A - Adaptation		1-2 years 3-6 years
TM-15	Work with local governments to develop an inter-municipal business licensing program for ride-sharing services		M		Complete
TM-16	Ensure new developments are 'EV Ready'	E.g. electrical charging capabilities, dedicated charging spaces, etc.	M		3-6 years
TM-17	Incentivize EV charging installations for businesses and residents		M		1-2 years
TM-18	Expand the Township's public EV charging network		M		1-2 years
TM-19	Explore and pilot on-street EV charging		M		3-6 years
TM-20	Explore commercial EV charging hubs		M		3-6 years
TM-21	Implement user fees for Township EV charging	Implement fees for EV charging to support cost recovery of EV charging infrastructure and increase turnover	M		1-2 years
TM-22	Continue and expand education on EVs		M		1-2 years
TM-23	Host EV "Ride and Drive" events		M		1-2 years
TM-24	Encourage the creation of an EV Drivers Group to promote EV education	EV enthusiasts provide peer-to-peer knowledge and experience	M		1-2 years
TM-25	Support gas stations to transition to refueling stations that support various types of low/zero emissions vehicles (EVs, CNG, hydrogen)		M		3-6 years
TM-26	Educate and encourage the electrification of trucks, off-road vehicles and equipment (e.g. tractors, lawn-equipment)		M		3-6 years
TM-27	Advocate for school bus electrification	Engage with local school districts to encourage policies to convert to electric school bus fleets	M		3-6 years
TM-28	Explore EV bulk purchase programs for municipal and community fleets	Bulk purchasing from local dealerships would reduce costs for EVs for larger fleets	M		3-6 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
TM-29	Advocate for EV leadership from other levels of government and utilities		M		1-2 years
TM-30	Advocate for Zero Emission Vehicles (ZEV) for shared mobility (e.g. ride hailing, taxis) and future driverless vehicles		M		1-2 years
TM-31	Advocate for Zero Emission Vehicle (ZEV) incentives as part of any future regional mobility pricing		M		3-6 years
TM-32	Advocate for robust vehicle fuel efficiency requirements at provincial/national level	For passenger and commercial vehicles	M		1-2 years
TM-33	Advocate for zero emissions requirements for medium-duty and heavy-duty vehicles		M		1-2 years
TM-34	Advocate for "Right-to-Charge" legislation	Legislation ensures strata dwellers are able to charge electric vehicles at home	M		1-2 years
TM-35	Advocate for park-and-ride and carpool lots		M		1-2 years
TM-36	Advocate for the regional collection and analysis of Vehicle Kilometres Traveled (VKT) data	Improves emissions data	M		1-2 years
TM-37	Develop a lifecycle costing tool for selecting new fleet vehicles		M		Complete
TM-38	Convert 100% of passenger corporate fleet to zero-emission vehicles	By 2030, including equipment where technologically feasible	M		1-2 years
TM-39	Purchase dual fuel (gasoline/propane) medium-duty and heavy-duty fleet vehicles	Until low/no carbon medium and heavy duty vehicles are available in the market. Propane releases 25-30% less carbon than diesel.	M		1-2 years
TM-40	Evaluate the feasibility and business case for renewable diesel for corporate fleet	Until low/no carbon medium and heavy duty vehicles are available in the market	M		1-2 years
TM-41	Implement staff driver training to reduce fuel use		M		1-2 years
TM-42	Review parking standards	Consider parking minimums and maximums for new construction, parking pricing where appropriate, residential permit parking program, etc.	M		3-6 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation	A - Adaptation	1-2 years 3-6 years
BL-1	Develop a Step Code implementation plan for applicable building types	To meet the Township's climate action targets, new buildings will need to be energy efficient and zero carbon	M		1-2 years
BL-2	Create one comprehensive set of energy and emissions guidelines for new construction	Revise and consolidate existing Development Permit Area (DPA) energy and emissions guidelines and apply guidelines Township-wide	M		1-2 years
BL-3	Explore incentive and regulatory options for constructing high performance buildings		M		3-6 years
BL-4	Explore the development of a green roof requirement for new commercial, industrial, institutional and multi-family residential developments		M	A	1-2 years
BL-5	Reduce energy and emissions and increase resilience in existing buildings	E.g. expand Green Building Rebate Program, implement Strata Energy Advisor program, etc.	M	A	1-2 years
BL-6	Pilot a retrofit program to upgrade existing single family homes	Reno Coach Pilot Program will provide incentives and resources to support homeowners	M	A	1-2 years
BL-7	Explore options to require energy benchmarking and home energy labelling for new and existing buildings	Benchmarking tracks a building's energy use and compares it to similar buildings. Benchmarking will apply to Part 3 buildings and home energy labelling for Part 9 homes.	M		1-2 years
BL-8	Continue education and training for building industry members on low-carbon and high performance construction	Continue Builder Forum Series	M		1-2 years
BL-9	Develop public education on the benefits of green buildings and green renovations	Develop education series framework (similar to builder forum series)	M		1-2 years
BL-10	Advocate and support development of a climate resilient building code	To be integrated into future updates of the BC Building Code		A	1-2 years
B:-11	Advocate and support development of a climate resilient building retrofit code	To be considered in the development of the BC Building Retrofit Code (expected 2024)		A	1-2 years
BL-12	Advocate to the provincial government to expand regulations for energy and emissions in new and existing buildings	E.g. retrofit code for existing buildings, building energy reporting (benchmarking requirement), GHG performance targets to accompany Step Code, expand Step Code targets for building types not currently covered	M		1-2 years
BL-13	Advocate to British Columbia Real Estate Association to include building energy labels in MLS listings		M		1-2 years
BL-14	Provide education and incentives to support energy efficiency and emission reductions in industrial buildings		M		3-6 years



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			M - Mitigation A - Adaptation		1-2 years 3-6 years
BL-15	Promote and encourage energy efficiency and fuel switching for new and existing agricultural buildings		M		3-6 years
BL-16	Explore water reuse for new buildings	Including rainwater capture and other water reuse opportunities	M	A	3-6 years
BL-17	Develop voluntary water assessment program for ICI and multi-family residential buildings	A water assessment can identify actions for building owners to take to reduce water use	M	A	1-2 years
BL-18	Continue and enhance existing water conservation education and programs		M	A	1-2 years
BL-19	Develop low-carbon retrofit plans for all existing corporate facilities	Plans will focus on reducing energy use and emissions, and increasing climate resilience	M	A	1-2 years
BL-20	Implement low-carbon retrofit plan recommendations for all existing corporate facilities	Recommendations will focus on upgrades that reduce energy use and emissions, and increase climate resilience	M	A	1-2 years
BL-21	Implement an Energy Monitoring Plan at all corporate facilities	Provides ongoing communications to key staff on the use of energy and equipment performance in facilities	M		1-2 years
BL-22	Develop and implement a Building Tune Up program at all major corporate facilities	Covers preventative and predictive maintenance, using automated recommissioning to reduce energy use and emissions	M		1-2 years
BL-23	Ensure major corporate facility renovations are zero carbon in operation	Develop and implement a green buildings policy for the renovation of existing Township-owned facilities	M	A	1-2 years
BL-24	Construct new corporate facilities to be zero carbon in operation	Develop and implement a green buildings policy for the construction of new Township-owned facilities	M		1-2 years
BL-25	Evaluate the feasibility of installing controls on heating systems in Township-owned utility stations		M		1-2 years
BL-26	Review guidelines in neighbourhood/community plans that support complete streets	Complete streets create a space where people can safely walk, bicycle, drive, take transit, and socialize	M	A	1-2 years
BL-27	Pilot a complete street to create a space where people can safely walk, cycle, drive, take transit, and socialize	A pilot project would look to retrofit a street within the Township to support multi-modal mobility options and public gathering space	M		3-6 years
BL-28	Develop a new neighbourhood centre to model resilient, low carbon design	Showcase sustainable community design with zero emission buildings, renewable energy systems, and livable public spaces	M	A	1-2 years
BL-29	Support Langley job creation	Support efforts to locate jobs in (or near) Langley to reduce commuting	M		1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
IN-1	Complete a full review of all rain water systems using future climate change and growth projections	Review all grey and green infrastructure as well as natural assets (wetlands, forests) as a system to manage stormwater and improve water retention and infiltration		A	1-2 years
IN-2	Incorporate future rainfall projections into Subdivision and Development Servicing Bylaw 2019 No. 5382			A	Complete
IN-3	Review green infrastructure design guidelines and develop an education and maintenance program for staff and the public	Increase knowledge and awareness of the stormwater and water supply benefits of green infrastructure		A	1-2 years
IN-4	Explore developing an "adopt a catch basin" and "adopt a raingarden" program			A	1-2 years
IN-5	Ensure existing and future detention ponds are functionally optimized and climate resilient	Expand assessment and maintenance program, and consider upgrades to support co-benefits such as recreation and biodiversity		A	1-2 years
IN-6	Create a strategic plan for long-term water supply that addresses future climate change and growth projections			A	1-2 years
IN-7	Complete condition assessments for water pump stations and sewer lift stations		M	A	1-2 years
IN-8	Implement energy efficiency upgrades at all Township water pump stations and sewer lift stations	Upgrades will be prioritized through water and sewer condition assessments	M		1-2 years
IN-9	Update design standards for high efficiency infrastructure in sewer lift stations		M	A	Complete
IN-10	Continue investing in sewer system upgrades and monitoring	Video monitoring (Closed Circuit TV) in connection laterals		A	1-2 years
IN-11	Continue to optimize leak reduction system in water supply infrastructure		M	A	1-2 years
IN-12	Install permanent leak detection sensors on trunk water mains		M	A	3-6 years
IN-13	Continue participating in the development of the Lower Mainland Flood Management Strategy to inform flood management planning along the Fraser River			A	1-2 years
IN-14	Continue building funding for dike management and prioritize maintenance and upgrades for existing dikes			A	1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
IN-15	Continue to share future floodplain mapping on Township website			A	1-2 years
IN-16	Limit soil deposits in the floodplain			A	1-2 years
IN-17	Encourage local or on-site renewable energy systems		M	A	1-2 years
IN-18	Complete a renewable energy assessment for a new neighbourhood	Assessment will identify possible renewable energy sources to be incorporated with future development	M	A	1-2 years
IN-19	Explore feasibility of renewable district energy systems		M	A	1-2 years
IN-20	Explore opportunities to recover energy from waste	Recover energy from agricultural, wastewater, curbside and commercial organic waste	M		3-6 years
IN-21	Convert all existing streetlights to LED		M		1-2 years
IN-22	Convert all existing park lighting to LED		M		1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation	A - Adaptation	1-2 years 3-6 years
GE-1	Complete a Tree Canopy Study/Strategy	Strategy will work to reduce the urban heat island effect, lower cooling needs for buildings, maintain/increase carbon sequestration, and improve biodiversity	M	A	1-2 years
GE-2	Implement shading features (trees, structures) for public parks, greenways, and active transportation corridors			A	3-6 years
GE-3	Develop a tree voucher program for private properties	Explore subsidy options to encourage the planting of trees on private lands to increase tree canopy		A	1-2 years
GE-4	Develop a Biodiversity Conservation Strategy			A	1-2 years
GE-5	Assess parks and greenspace proximity to residential homes	Study results will help prioritization and improve equitable access	M	A	1-2 years
GE-6	Evaluate natural assets and incorporate into the asset management program		M	A	1-2 years
GE-7	Use a climate lens to assess all assets in the asset management program		M	A	3-6 years
GE-8	Develop a natural asset and biodiversity map to inform decision-making	For use in land use planning, transportation planning, and land acquisitions and sales	M	A	1-2 years
GE-9	Update preferred planting list of trees and shrubs to ensure plants can adapt to future climate conditions	For use corporately and to distribute to developers		A	1-2 years
GE-10	Explore a standard to increase soil volume and quality for tree plantings			A	1-2 years
GE-11	Review Streamside Protection and Enhancement Development Permit Area (DPA) guidelines with future climate projections			A	1-2 years
GE-12	Prioritize preventative maintenance of park and street trees to reduce storm-related damage			A	1-2 years
GE-13	Prioritize erosion control to protect trail and park assets			A	1-2 years
GE-14	Explore rainwater harvesting for parks field irrigation		M	A	1-2 years
GE-15	Use a climate lens to conduct a cost/benefit analysis for synthetic turf fields vs. grass fields in parks			A	1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
GE-16	Expand invasive species control program	Expand knotweed program and add other invasive species control along roadways and in parks		A	1-2 years
GE-17	Enhance education on invasive species risk			A	3-6 years
GE-18	Develop best management practices for Integrated Pest Management that include a climate adaptation lens	For key species of concern e.g.: European chafer and Japanese beetle, emerald ash borer, sudden oak death, Asian giant hornet		A	1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
HP-1	Update Langley's Emergency Response Guidelines for extreme heat events			A	1-2 years
HP-2	Ensure that outdoor events and recreation activities consider the impacts of hot weather and poor air quality	Update planning procedures and ensure contingency plans		A	3-6 years
HP-3	Explore enhanced opportunities for cooling outdoor spaces			A	1-2 years
HP-4	Increase quantity of permanent public drinking fountains			A	3-6 years
HP-5	Purchase and maintain a portable water station and misters	For events and staff during heat events		A	1-2 years
HP-6	Ensure a climate resilient workforce	Revise staff operational training and protocols to adapt to climate change impacts such as increasing temperatures (e.g. consider mobile shade structures and shifted hours for outdoor workers)		A	3-6 years
HP-7	Integrate climate risks into the Hazard, Risk and Vulnerability Analysis (HRVA)			A	1-2 years
HP-8	Develop business continuation plans for prolonged extreme weather events and disruptions to the energy supply		M	A	1-2 years
HP-9	Expand Department Operations Centre (DOC) and Emergency Operations Centre (EOC) notification lists			A	1-2 years
HP-10	Develop a response operational guideline for interface fires			A	1-2 years
HP-11	Expand emergency preparedness education			A	1-2 years
HP-12	Expand community grant program to include sustainability-focused grants		M	A	1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
AG-1	Develop a requirement for food growing space in new multi-family buildings to encourage urban agriculture		M	A	3-6 years
AG-2	Continue and enhance local food promotion and education		M	A	1-2 years
AG-3	Continue to expand the community garden program		M	A	1-2 years
AG-4	Continue and expand the Ecological Services Initiative (ESI)	ESI enhances riparian health and other ecological features on farm properties	M	A	1-2 years
AG-5	Encourage best practices in sustainable farm management	Engage stakeholders to advance climate friendly agricultural strategies, including adaptation opportunities and identifying and showcasing carbon-absorbing crops	M	A	1-2 years
AG-6	Encourage local farmers to complete and implement federal Environmental Farm Plans (EFP)	The BC Federal EFP Program offers free environmental risk assessments for farm operations, and beneficial management practices (BMP) programs provides funding opportunities to support the implementation of on-farm mitigation and adaptation projects	M	A	1-2 years
AG-7	Partner with the BC Agriculture & Food Climate Action Initiative (BCAGFCAI) to support climate action in the Township's agricultural industry		M	A	1-2 years
AG-8	Promote the provincial program Premises ID to assist with livestock relocation during emergency events			A	1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
WS-1	Expand municipal Green Cart and garbage collection program to residential properties outside current municipal collection areas		M	A	1-2 years
WS-2	Explore feasibility of a municipal recycling depot	Aim for one-stop recycling drop-off	M		1-2 years
WS-3	Conduct a study of the Township's waste collection system to reduce fuel use	Review pick-up frequency, vehicle technology, etc.	M		3-6 years
WS-4	Ensure all residential properties have disposal options for recycling and organics	Explore a combination of education and enforcement to bring all residential properties in compliance with the Township's Solid Waste Bylaw	M		1-2 years
WS-5	Ensure all ICI properties have disposal options for recycling and organics	Explore a combination of education and enforcement to bring all ICI properties in compliance with the Township's Solid Waste Bylaw	M		1-2 years
WS-6	Explore development of a bylaw to increase recycling from demolition, construction, and land clearing		M		3-6 years
WS-7	Review recycled content requirements for corporate and community constructions projects		M		3-6 years
WS-8	Improve waste diversion from all Township facilities		M		3-6 years
WS-9	Support and advocate for waste reduction strategies/programs from all levels of government		M		1-2 years
WS-10	Explore alternatives to burning green waste	Open-air burning is sometimes used as a method to manage large quantities of green waste, releasing carbon and reducing air quality	M		1-2 years



ID	Action	Details	Focus		Start Timeframe
			M - Mitigation A - Adaptation		1-2 years 3-6 years
LI-1	Review and align strategic policy documents and bylaws to support climate action	Including but not limited to: Sustainability Charter, OCP, Neighbourhood and Community Plans, Zoning Bylaw, Subdivision and Development Servicing Bylaw, Building Bylaw, Form and Character DP Guidelines, and Energy and GHG DPA Guidelines	M	A	1-2 years
LI-2	Develop a climate impact assessment tool to improve decision-making	Tool will include an equity lens and will be included in Council reports, annual budget requests, and purchasing processes	M	A	1-2 years
LI-3	Establish a funding mechanism to support the implementation of the Climate Action Strategy	Mechanism should include funding to support extreme weather remediation	M	A	1-2 years
LI-4	Create a climate action priority category for all related budget items		M	A	1-2 years
LI-5	Develop a climate action policy to ensure key actions are implemented consistently across the organization	Examples of areas covered under the policy include: fleet and equipment, procurement, energy management, etc.	M	A	1-2 years
LI-6	Establish an internal stakeholder committee to support implementation of the Climate Action Strategy		M	A	1-2 years
LI-7	Provide ongoing education and data to support staff, management and Council to implement the Climate Action Strategy		M	A	1-2 years
LI-8	Provide ongoing public education on climate change	Include action opportunities for residents and businesses	M	A	1-2 years