

SUSTAINABILITY AND ENVIRONMENTAL ADVISORY COMMITTEE

DATE: Tuesday, November 28, 2023
TIME: 7:00 p.m. to 9:00 p.m.
PLACE: Council Committee Room, Coquitlam City Hall

CALL TO ORDER

ADOPTION OF MINUTES

- 1. Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, September 26, 2023**
Recommendation:
That the Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, September 26, 2023 be approved.

NEW BUSINESS

- 2. Single Family Stormwater Management (Presentation by the Utility Planning Engineer)**
7:05 – 7:25 p.m. (20 minutes)
- 3. Urban Forest Management Plan (Presentation by the Urban Forest & Parks Services Manager)**
7:25 – 7:45 p.m. (20 minutes)
- 4. Waste Management and Recycling Update 2023 (Presentation by the Solid Waste and Special Projects Manager)**
7:45 – 8:05 p.m. (20 minutes)
- 5. Urban Wildlife Management Update 2023 (Presentation by the Urban Wildlife Coordinator and Environmental Education & Enforcement Manager)**
8:05 – 8:25 p.m. (20 minutes)
- 6. 2023 Year-End Review/Identify Potential Items for the Draft 2024 Work Plan (Discussion led by the Manager Environment and Environmental Education and Enforcement Manager)**
8:25 – 8:45 p.m. (20 minutes)
- 7. Committee Members' Roundtable / Emerging Issues (Standing Agenda Item)**
8:45 – 9:00 p.m. (15 minutes)



OTHER BUSINESS

NEXT MEETING DATE – TBD (2024)

ADJOURNMENT

SUSTAINABILITY AND ENVIRONMENTAL ADVISORY COMMITTEE
Tuesday, September 26, 2023

A Regular Meeting of the Sustainability and Environmental Advisory Committee convened on Tuesday, September 26, 2023 at 7:00 p.m. in the Council Committee Room, City Hall, 3000 Guildford Way, Coquitlam, BC, with the following persons present:

COMMITTEE MEMBERS: Councillor Brent Asmundson, Chair
Councillor Robert Mazzarolo, Vice Chair
Grayson Barke, Citizen Representative
Reza Berry, Citizen Representative
Linton Chokie, Citizen Representative
Silvia Cojocar, Citizen Representative
Mohammad Darabi, Citizen Representative
Daryoush Mohammad Hassani, Citizen Representative
Bonnie Razzaghi, Citizen Representative

REGRETS: Mark Ashton, Citizen Representative
Edward Lau, Citizen Representative

STAFF: Jenny Tough, Environmental Education and Enforcement Manager
Laura Sampliner, Environmental Sustainability Manager
Doron Fishman, Park Planning and Design Manager
John Musil, Parks Planner 2
Karin Johnson, Sustainability Programs Specialist
Caley Amundsen, Committee Clerk

CALL TO ORDER

ADOPTION OF MINUTES

1. Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, July 25, 2023

The Minutes of the Sustainability and Environmental Advisory Committee Meeting held on Tuesday, July 25, 2023 were approved.

NEW BUSINESS

2. Climate Action Plan Engagement

The Environmental Sustainability Manager provided introductory comments regarding the Climate Action Plan Engagement.

The Sustainability Programs Specialist provided a presentation entitled “Climate Action Plan – Project Update and Discussion” that covered the following topics:

- Background, overview, goals and timeline of the City’s Climate Action Plan (CAP)
- Synergy between the City’s CAP and Environmental Sustainability Plan (ESP)
- Breakdown of Coquitlam’s carbon pollution, greenhouse gas (GHG) emission sources and emission reduction targets
- CAP priority areas and next steps

Discussion ensued relative to the following:

- City efforts to reach climate goals by retrofitting buildings with sustainable infrastructure
- The feasibility and challenges of retrofitting older buildings with sustainable and zero-carbon/low-carbon energy systems
- The necessity of installing sustainable energy systems in new buildings to avoid retrofitting later
- Municipalities having limited regulatory power in terms of mandating sustainable energy systems for large buildings
- The necessity of lobbying higher levels of government to provide funding for climate change initiatives
- Older multi-unit residential buildings and whether data exists regarding their retrofitting with sustainable energy technology
- Ontario’s “right-to-charge” legislation, O.Reg. 114/18, s.8 in *1998 Condominium Act*, regarding condominiums and EV charging technology
- Whether the City will provide incentives for older stratas to install EV charging technology
- The desire for a more comprehensive breakdown of Coquitlam’s residential GHG emissions and transportation GHG emissions
- Barriers to *how we build* CAP priority, including heat pump retrofitting, sourcing, installation costs and maintenance, strata regulations, high costs of installing EV chargers and higher insurance premiums, City permit process being inhibitive, building capacity, natural gas being more reliable than electrical heating systems, climate misinformation, transition stage of emerging climate technology, loans and financial incentives being hard to access for retrofits, reluctance to embrace emerging sustainable technology and the lack of information regarding retrofits and sustainable technology
- Barriers to *how we move* CAP priority, including the lack of safe bike paths and safe, accessible and multi-use sidewalks, the lack of reliable transit options, difficulties of travelling with young children and construction activity hampering traffic flow and pedestrian access
- Barriers to *how we consume* CAP priority, including lack of awareness regarding the recycling of old stationary office materials, grocery stores not working with food banks to reduce food waste, lack of education regarding GHG emissions and waste, plastic packaging in fruits, methane emissions at landfills, and reluctance to change eating habits to consume less red meat and beef
- Barriers to *how we steward* CAP priority, including lack of opportunities for

people to know their local environment, not planting enough trees to replenish what has been cut down, lack of community gardens, lack of greenspace within urban areas, challenges of planting more trees, tradeoff between greenspace and housing, provincial housing targets and regulations for municipalities and human caused climate disasters such as forest fires

3. Glen Park – Phase 3

The Park Planning and Design Manager provided introductory comments relative to the Glen Park – Phase 3 Project.

The Parks Planner 2 provided a presentation entitled “Glen Park Phase 3” that covered the following topics:

- Background and overview of Glen Park (hereon “the Park”)
- Project timelines and public engagement opportunities
- Glen Park Master Plan (2011)
- The Park and City Centre demographic data and population growth projections
- Project’s phase 3 proposed amenity expansion and upgrades
- The City having an agreement with School District No. 43 (SD43) to prioritize access for students from nearby Glen Elementary School to use a 1.2 acre shared-use site in the Park during school hours

Discussion ensued relative to the following:

- The desire for the Park to include amenities for children and families, covered spaces for year-round use, playground space, social gathering space, more lighting at night, an enlarged seating area, a formalized horticultural garden and garbage/recycling bins
- The feasibility of installing a perimeter walking pathway around the Park
- The Park being an alternative to Town Centre Park when events and festivals are occurring
- The possibility of connecting the Park with other City amenities and greenspace such as Coquitlam River Park
- Whether the Park’s southern forest will be thinned out
- The challenges of creating new field space
- The importance of preserving trees that are still healthy
- Whether data exists on the diversity of trees in the Park
- The City’s Canopy Walk through Mundy Park
- Harper Park signage displays that provide tree canopy information
- Concern regarding coyotes and rodents in the Park

4. Committee Members’ Roundtable / Emerging Issues

The Chair invited the Committee members to share information and emerging issues from the community.

A Committee member shared that another Tri-Cities Urban Forest Forum will be held on November 7, 2023 at Douglas College Coquitlam Campus Lecture Theatre A1470.

OTHER BUSINESS

NEXT MEETING DATE - Tuesday, November 28, 2023

ADJOURNMENT

The meeting adjourned at 8:24 p.m.

MINUTES CERTIFIED CORRECT:

Brent Asmundson, Chair

Caley Amundsen, Committee Clerk

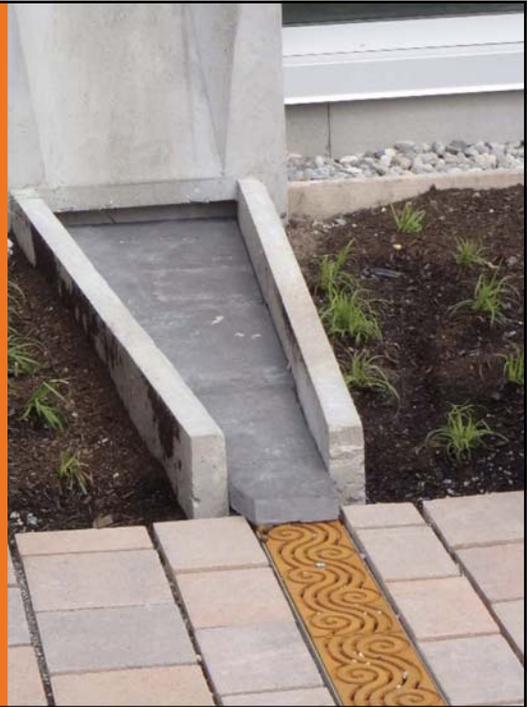
City of Coquitlam
Engineering and Public Works

STORMWATER DETENTION FOR LOW DENSITY DEVELOPMENTS

November 28th, 2023

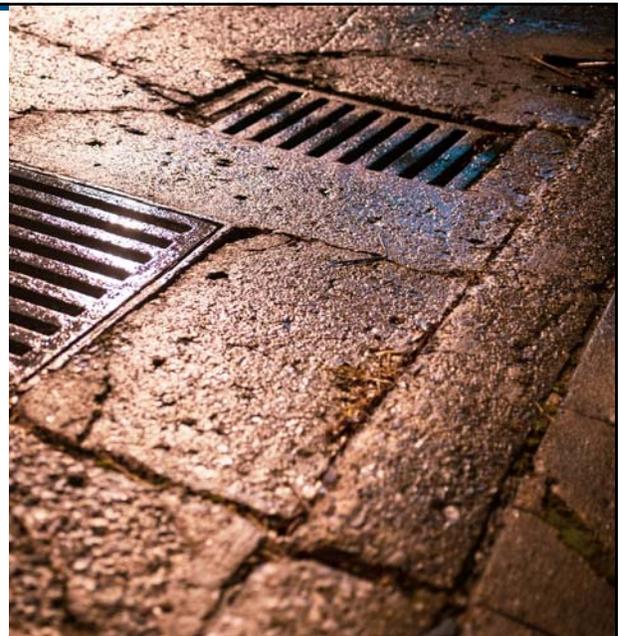

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Agenda

1. Stormwater Management Background
 - Land use in Coquitlam
 - Conveyance Implications
 - Environmental Implications
2. Stormwater Management – Levels of Control
3. Project Definition
 - Scope
 - Timeline
4. Questions

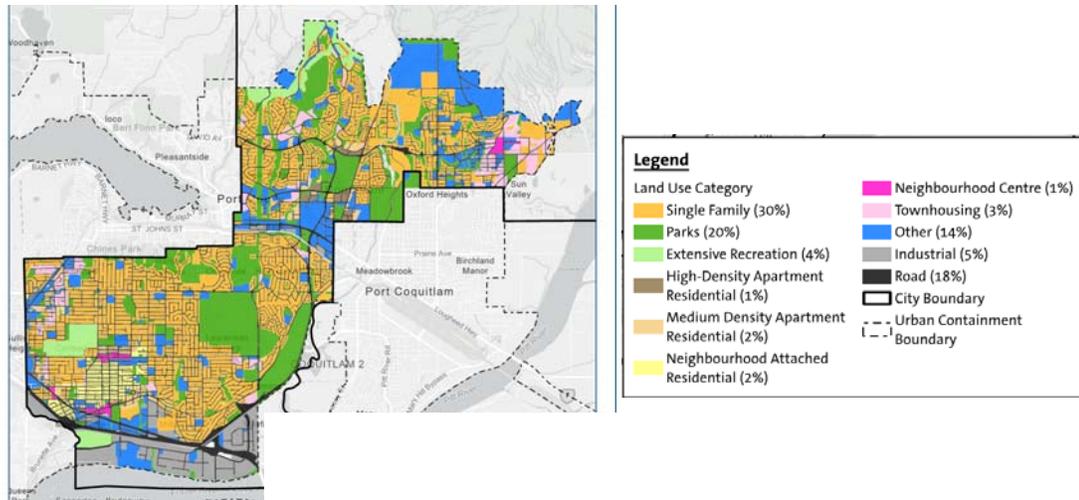


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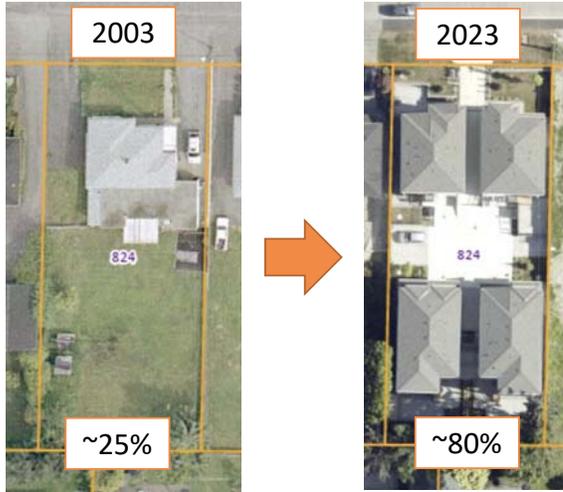
Background

The screenshot shows the BC Gov News website interface. At the top, there is a search bar and navigation links for Home, Ministries, Sectors, Connect, Subscribe, and News Archive. A main headline reads: "Office of the Premier: More small-scale, multi-unit homes coming to B.C., zoning barriers removed Updated Nov. 2, 2023". Below this, there are two article teasers. The left one is titled "Rising construction costs threaten Metro Vancouver affordable housing projects" with a sub-headline "The added costs will eat away at the \$100 million the regional government has budgeted for the next decade to build affordable housing projects, according to a report." The right one is titled "Standardized housing designs coming to B.C. to speed up permitting" with a sub-headline "Designs can be adopted by local governments to reduce construction costs, says Ministry of Housing".

Current Land use in Coquitlam



Conveyance Implications



Coquitlam's drainage system was designed for **50%**

Conveyance Implications (Cont.)



	2003	2022
Impervious Area	30%	80%
Avg. Runoff Coefficient	0.41	0.60
Runoff	3.2 L/s	6.2 L/s

+95% more runoff

Environmental Implications

Contaminants loading: Pollution loadings reach watercourses.

Summer base flow reduction: Less groundwater recharge leads to drier creeks during dry conditions.

Urban heat effect: Higher imperviousness on the surface increases average temperatures in local neighbourhoods.



Stormwater Management – Levels of Control

1. Integrated Watershed Management Plans (IWMPs)

- Watershed health
- High density buildings
- ICI

2. Stormwater Management Policy and Design Manual

- Design criteria and development standards

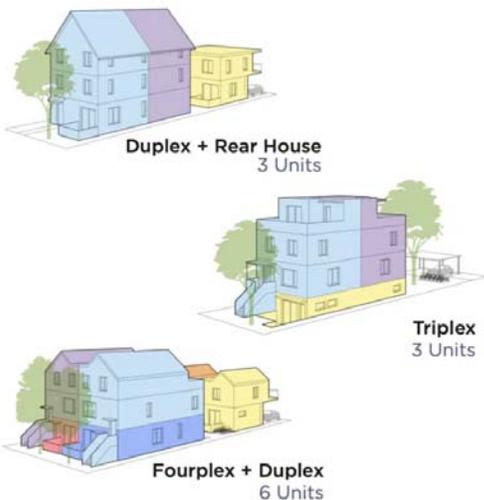
3. Rainwater Management Source Control Design Requirements and Guidelines

- Single-family
 - 300 mm absorbent top soil
 - Rain barrels and rain gardens are encouraged

Areas of concern

- Hydraulic**
 - Capacity → Current storm system does not account for this increase
- Environmental**
 - Decrease hydrological function → Reduces **summer base flows** in creeks
 - Increase of **pollutants** loadings reaching watercourses
 - Increase of **erosion** of creek banks and resulting negative impacts on riparian and fish habitat
 - Urban heat areas
- Financial**
 - Capital Plan → Cost increase
- Social**
 - Perception → Localize flooding, Water Quality issues

Project's Purpose



Explore **source control** options to support stormwater management in **new low density developments**.

Advance responsible and **sustainable** management of rainfall and runoff to **minimize future costs** for storm-related capital projects

Scope

1. System Assessment

- Impact on the storm system due to runoff from developments with increased density or imperviousness.
- Financial analysis to determine the required capital projects to convey future conditions.

2. Development of required criteria

- Based on geological and geographical conditions (i.e., soil infiltration capacity, steep areas).
- Financial assessment to confirm that the on-site works are favourable compared to upsizing existing pipes.
- Typical engineering standards.

3. Reporting

- Present recommendations report to Council.

Strategic Alignment



- **58** – Create tools, policy, and processes that support best management practices for sustainable development
- **60** - Identify and pursue opportunities to add and retain green infrastructure and features
- **103** - Explore ways to increase onsite rain and storm water retention, such as through pervious area requirements, guidelines or incentives, with a focus on single family developments
- The Climate Action Plan is also being developed and is a Business Plan Priority 'A' in 2023.

Deliverables

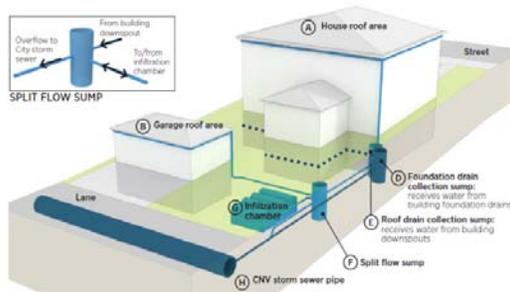
1. Technical Assessment:

Report to the Engineering Management team, summarizing the storm system's conveyance under existing and future runoff conditions.

2. Report to Council:

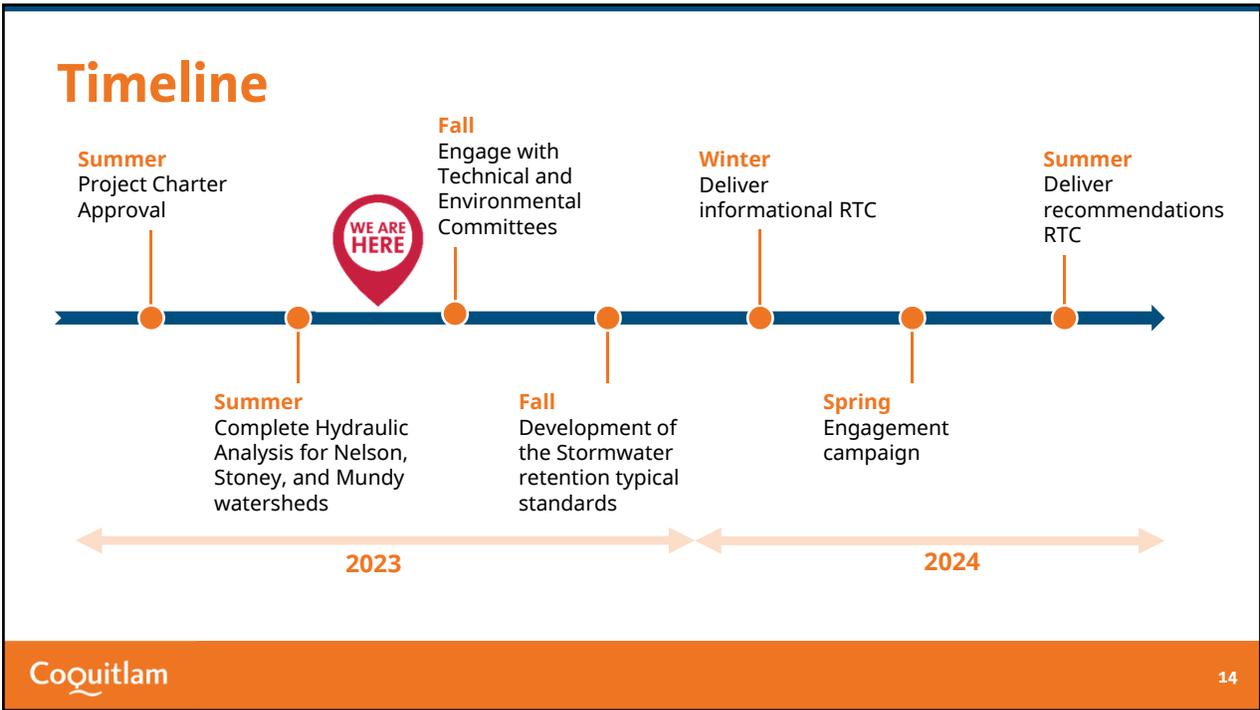
- Current stormwater system performance.
- Recommendation for managing stormwater in low-density developments, highlighting any potential gap in the existing legislation and presenting options and recommendations to address them.

Onsite Engineering Standards



Taken from CNV - [Stormwater Management for Single Family & Duplex Developments](#)

- Typical Engineering Standards available to developers to facilitate the implementation.



Questions?

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Utility Planning Engineer

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Thank you

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City of Coquitlam
Parks, Recreation,
Culture and Facilities

Urban Forest Management Strategy

Sustainability & Environmental Advisory
Committee

November 28, 2023


coquitlam.ca/

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Coquitlam's Urban Forest

Coquitlam's urban forest includes ALL trees within the City: Public and Private

Highly valuable asset that provides:

- Better health outcomes
- Shade / cooler temperatures
- Recreational amenities
- Wildlife habitat
- Increased property values
- Clean air
- Storm water management



Coquitlam

Urban Forest Management Strategy will:

- Build community resilience in a changing climate
- Recommend specific and achievable actions to maintain and enhance our canopy cover
- Maintain the health of residents and the growing community
- Help secure significant grant opportunities



Scope

- Recommend actions to protect, enhance and manage the health of Coquitlam's public and private trees now and into the future
- Recommend actions related to canopy cover
- Focus on stewardship and incentives to engage the community
- Address the unavoidable impacts of development on the urban forest



Project Timeline

Spring/ Summer
2023

Fall 2023

Spring 2024

Spring/Summer
2024

Summer/Fall
2024

Phase 1: Project
Initiation

Phase 2:
Research &
Engagement

Phase 3: Key
Findings

Phase 4:
Draft
Strategy

Phase 5:
Final
Strategy

Council
check-in

Council
check-in

Council
check-in

Council
approval

Phase 2: Research and Engagement

Research and data analysis

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Community Working Group

Public Engagement

City of Coquitlam

Urban Forest Management Strategy



The City of Coquitlam is developing its first-ever Urban Forest Management Strategy to protect and care for the urban forest, which includes all trees and vegetation in the city. The Urban Forest Management Strategy will:

- Evaluate the current conditions of Coquitlam's urban forest
- Establish a community-supported urban forest vision and goals
- Provide guidance and strategic actions to grow, manage, and protect the city's urban forest

Background and analysis work recently started and public engagement will start in the New Year. Please stay tuned for more information, and for opportunities to engage.

Sign up for project updates at [LetsTalkCoquitlam.ca/UrbanForest](https://lets-talk-coquitlam.ca/UrbanForest)





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2023 Solid Waste Operations Update

Presentation for November 28, 2023
SEAC Meeting

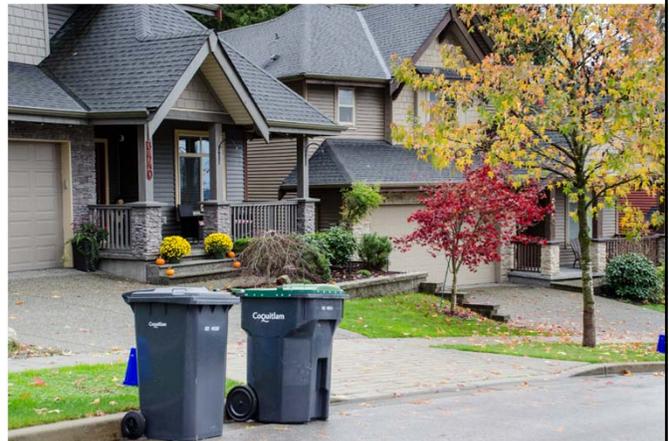
Shannon Hadley
Solid Waste and Special Projects Manager


coquitlam.ca/trashtalk



Outline

1. Collection Services
2. Other Solid Waste Services
3. Education and Enforcement
4. Coquitlam Updates
5. Regional and Provincial Updates



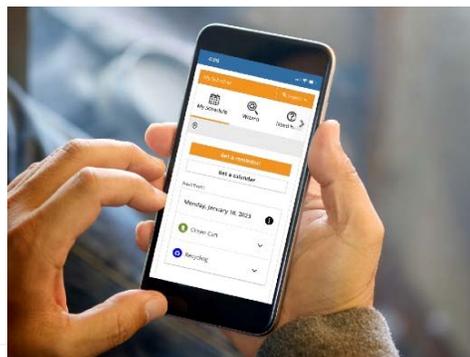


Collection Services

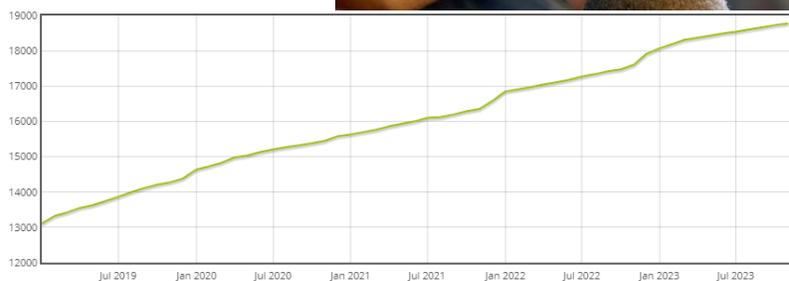
- Garbage and Green Cart collection
 - Service provided to approximately 25,500 homes
 - Weekly green waste and bi-weekly garbage collection
 - Extra yard trimmings collection in spring and fall
 - Large Item Pick-up program
 - Cart delivery and maintenance
- Recycling collection is provided by Recycle BC at no cost to Coquitlam residents

Other Solid Waste Services

- Town Centre Recycling Depot
- Free green waste drop-off at United Boulevard Recycling and Waste Centre
- Streetscape litter bin collection
- Coquitlam Curbside Collection app
 - 72% of households subscribed



Reminders over time



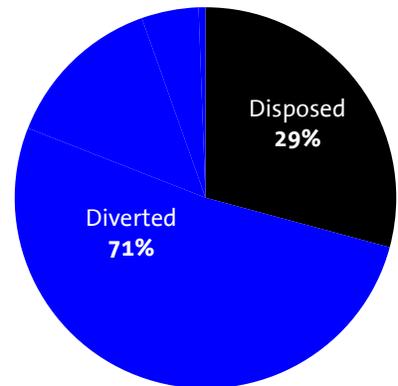
Education and Enforcement

- Education initiatives
 - Repair Cafés
 - City Wide Garage Sale and Giveaway
 - Compost Giveaway
 - School presentations
 - Discounted backyard composter sales
- Enforcement
 - Cart contamination
 - Proper cart set-out



Coquitlam Updates

- 2022 Coquitlam residential diversion rate: **71%**
 - Regional average 65% (2021)
- Awarded new collection contract
- New online request forms to improve customer service
- Removed fee for downsizing Garbage Carts to incentivize waste reduction
- Food waste drop-off at Town Centre Recycling Depot
- Compacting litter bins



Coquitlam Curbside Residential Waste Diversion - 2022

Regional and Provincial Updates

- Metro Vancouver continues work to update their Solid Waste Management Plan
- Province moving forward with Five-Year Action Plan for Extended Producer Responsibility
 - New single-use packaging items accepted in Blue Box in 2023
 - Plan includes mattresses and EV batteries in 2025/26



Food bags and flexible plastics purchased as a product



Disposable food storage containers purchased as a product – containers intended for short-term use

Good news! More items are now accepted for recycling.

Questions?

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Urban Wildlife Program Update

Sustainability and Environmental Advisory Committee
November 28, 2023

 | coquitlam.ca/bearsmart

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Urban Wildlife Program Goals

Minimize Attractants

- Waste – neighbourhoods, parks, commercial/institutional
- Other – fruit, compost, bird feeders, etc.

Mitigate Public Safety Concerns

- Human wildlife conflict
- Vectors (e.g. rats, mice, mosquitos)

Reduce Risk to Wildlife

- Education and outreach to promote coexistence
- Work collaboratively with partners

Shift Behaviours

- Attractant management – secure waste, control odours, morning only cart set-out
- Waste separation – use the garbage, green and recycling carts properly
- Waste reduction – minimize the amount of waste being generated



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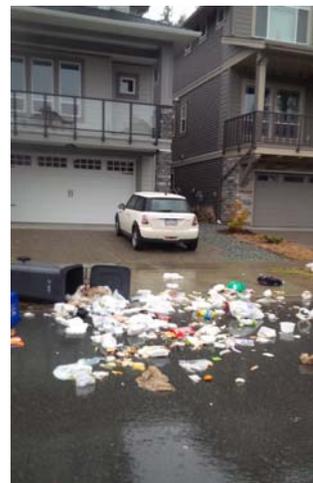
Bylaws for Attractant Management

Solid Waste Management Bylaw

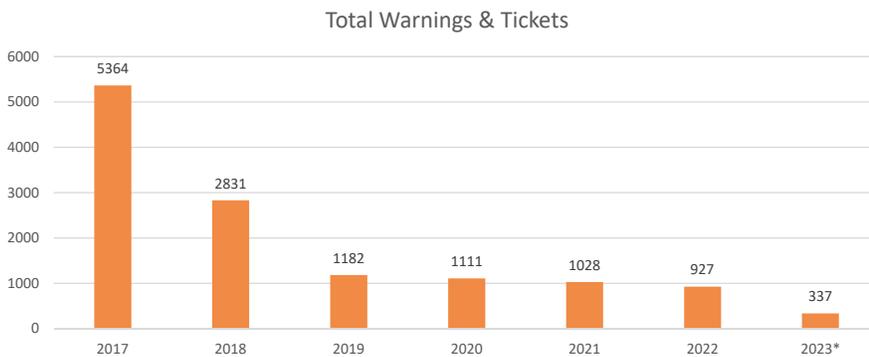
- Cart set-out the night before collection (\$500 fine)
- Waste sorted improperly (\$150 fine)

Wildlife & Vector Control Bylaw

- Attractants accessible to wildlife/feed wildlife (\$500 fine)
- Conditions on property are attracting vectors (\$150 fine)



Urban Wildlife Bylaw Enforcement



Public Education & Outreach Material

- Presentations
- Events
- Door-to-Door
- Mail Outs
- Media
- Website
- Social Media
- Videos
- Collection Calendar
- Utility Tax Insert
- Rec Program Guide
- Recollect App
- Bear/Wildlife 101
- City Hall Display
- Brochures



Bear Smart Video Series



Urban Wildlife - Other

- Rodents remain the second highest wildlife species reported
- Service requests regarding raccoons were the third highest type of call received in 2023



2022/2023 Urban Wildlife Program Summary

- Implemented a Total Food Ban at three park locations
- Coyote Awareness and Education Presentations
- Recruited Urban Wildlife Coordinator and Urban Wildlife Bylaw Officer, and Environmental Protection Officer
- Updated Rodent Brochure to reflect the Provincial wide ban on rodenticides.

City of Coquitlam | Engineering & Public Works
Rodents in Urban Environments



Managing Rats and Mice
Rats and mice are common pests in the urban environment. Their presence can be determined by a number of signs including: droppings and urine, tracks (including foot prints or tail marks), burrows, damaged food packages, chewing noises and other sounds. Pest management is important to prevent property damage and disease transmission.

Coquitlam

2024 Program Priorities

- Formalize policy on wildlife friendly creek crossings
- In accordance with the ESP – adopt street lighting standards to reduce impact on wildlife
- Amend garbage and green waste storage standards to incorporate wildlife resistance guidelines
- Continue expanding education programs and outreach
 - Bioblitz
 - City Nature Challenge



Questions





Date	Topics
March 28	<ul style="list-style-type: none"> • Committee Orientation and Work Plan Review • Seasonal Water Pricing • Environmental Volunteer Celebration
May 23	<ul style="list-style-type: none"> • City Creek Water Quality Monitoring • Climate Action Plan – Scope, Process & Timeline • Environmental Volunteer Celebration
July 25	<ul style="list-style-type: none"> • Strategic Transportation Plan & E-Mobility Demonstration • Creek Hazard Assessment • Environmental Volunteer Celebration Event • Strategic Plan Renewal
Sept. 26	<ul style="list-style-type: none"> • Climate Action Plan Engagement • Glen Park Phase 3
Nov. 28	<ul style="list-style-type: none"> • Single Family Stormwater Management • Urban Forest Management Plan • Waste Management and Recycling Update • Urban Wildlife Management Update • Year-End Review and Work Planning

2024 Work Planning

Roll Over 2023 Business Plan Priorities

- Climate Action Plan
- Strategic Transportation Plan
- Urban Forest Management Plan

Various Departmental Priorities

- Park and Facility Plans
- Neighbourhood Plans
- Bylaws
- Environmental Initiatives

Any additional topics that should be considered for 2024?



Thank you