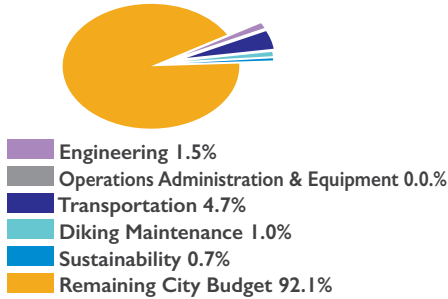


OPERATIONS & ENGINEERING - OPERATING



Department's Share of City Budget



Operating Budget:	\$2,870,350
Capital Budget:	\$4,599,600
Staffing Complement:	21.2 FTE (full-time equivalent) & 2.0 seasonal FTE
Supports Strategic Focus Areas:	Transportation and Infrastructure, Community Livability, Economic Prosperity, and Corporate Excellence

OVERVIEW

The Engineering and Operations department is comprised of two divisions.

Engineering Division

Responsible for the engineering design, planning, and construction of the City's infrastructure. Additionally, the engineering division is an integral partner in reviewing construction applications and spearheads the environmental protection & stewardship programs to ensure the City of Pitt Meadows is not only compliant, but thought of as a municipal leader.

Services include:

- Engineering Information Services
- Infrastructure Renewal and Replacement
- Capital Infrastructure Planning and Construction Coordination
- Development Engineering
- Transportation Planning, Traffic Management, and Active Transportation
- Advisory Committee Support – Agricultural Advisory Committee, Safer City Committee, Active Transportation Committee
- Environmental Protection & Stewardship
- Sustainability



OPERATIONS & ENGINEERING - OPERATING

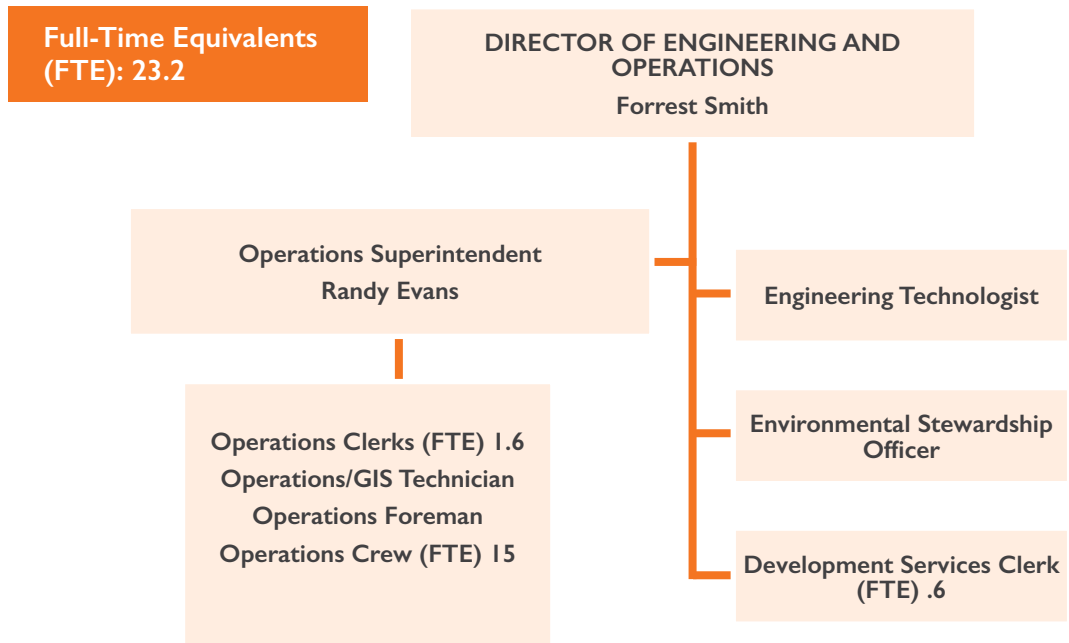
Operations Division

Ensures that the City's public infrastructure is operated, and maintained to the highest standard given available resources. This includes the managing and servicing of equipment and machinery as well as the maintenance of capital infrastructure.

Services include:

- Public Works Administration
- Drinking Water Quality and Distribution – testing and meter reading
- Waste Water Collection System
- Storm Drainage Management
- Solid Waste Collection – garbage and green waste
- Dike Maintenance
- Fleet and Equipment Infrastructure Renewal and Replacement
- Maintenance of Roads, Bridges and Sidewalks – including winter control and street sweeping
- Mosquito Control

STAFFING COMPLEMENT



■ AT A GLANCE

The City maintains water, diking, sanitary sewer, storm drainage and road infrastructure as follows:

Water Utility (domestic & fire protection)

- 112.5 km of water main
- 6 PRV (pressure reducing valve) stations & 1 PB (pressure booster station)
- 481 hydrants
- 3,945 service connections
- 989 water valves
- 720 water meters
- Water quality testing & meter reading

Diking System

- 60.9 km dikes

Sanitary Sewer System

- 48.5 km of sewer main
- 8 sewer lift stations
- 3,029 sanitary connections
- 697 sewer manholes
- 6 fixed generators, 1 portable generator
- 16 pumps and controls

Storm Drainage System

- 176.7 km open drainage ditches (public land)
- 48.9 km storm sewer pipes
- 742 manholes
- 1,405 catch basins
- 2,337 service connections
- 6 pump stations and 15 pumps
- 11 floodgates
- 740 culverts

Road Network

- 114.3 km of road
- 2,034 signs on 1,249 poles
- 1,009 streetlights
- 8 traffic signals
- 9 bridges
- 58.7 km of sidewalk
- 31 km of bike lane
- Solid waste receptacles and street amenities throughout the City



OPERATIONS & ENGINEERING - OPERATING

- The current population of Pitt Meadows is estimated at 18,673 residents.
- Between the 2006 and 2011 Census periods, the total number of households in Pitt Meadows increased from 5,820 to 6,720 which represents an increase of 13.5% making Pitt Meadows one of the top five fastest growing municipalities in Metro Vancouver during that time period.
- **Bike Lanes and Trails.** Both bike lanes (31km) and off road multi-use trails (14.8 km) have been steadily increasing in Pitt Meadows.
- **Carbon Neutrality.** The City of Pitt Meadows has demonstrated a strong commitment to reducing greenhouse gas emissions within the community and corporate operations. Accordingly, for the 2015 reporting year, the City was awarded Level 3 recognition – “Achievement of Carbon Neutrality”.
- **Energy Conservation Initiatives.** Pitt Meadows partners with BC Hydro on a Workplace Conservation Awareness Program. The Public Works Yard, Pitt Meadows Family Recreation Centre and Fire Hall buildings have all participated in targeted reduction challenges and reduced energy consumption by 10-20%.
- **Electric Vehicle Charging Station.** In April 2013, The City installed its first electric vehicle charging station outside of City Hall. The station has seen dramatic increases in use that have corresponded to greenhouse gas (GHG) reductions for the community.

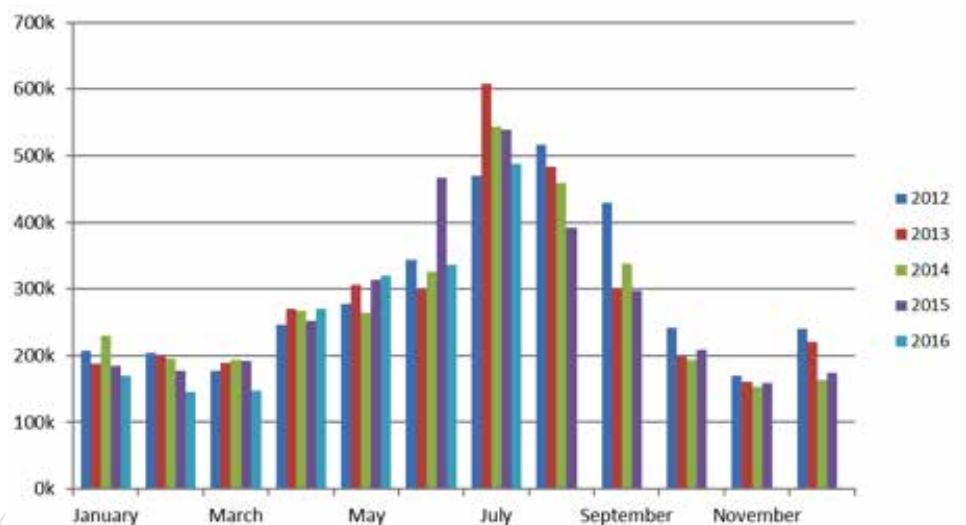
Year	Yearly GHG Savings (kg)	Yearly Energy Consumption (kWh)
2013	278	661
2014	254	606
2015	1177	2,803
2016 (up to Oct 31, 2016)	1422	3,385

Public Utility Infrastructure

Water Utility

- Over the past five years the City on average has purchased approximately 3,400,000 cubic metres of water a year from Metro Vancouver. The cost to purchase this water is approximately \$2,200,000.

CONSUMPTION (M³)



- The City is responsible for the distribution and delivery of the water it purchases to households, businesses, institutions, and agricultural users. The provision of domestic water to agricultural users is unique and sets Pitt Meadows apart from the rest of Metro Vancouver. Over 55% of the City's water distribution system services the rural agricultural area. As a result, the City of Pitt Meadows is one of the largest per capita water users in Metro Vancouver.
- In 2013, Pitt Meadows reached the highest water quality that we have ever reported. Increased temperatures in the past two years have resulted in a reduction in water quality in certain areas of the community. While our water quality continues to exceed standards staff is monitoring these key areas to determine what is contributing to these changes.
- To support water quality, Pitt Meadows established a cross-connection control program in 2010, ensuring the municipal water supply is not contaminated by inadvertent back flow into the system. While we have a good understanding of the back flow prevention status for industrial, commercial and institutional (ICI) properties, there was minimal documentation for agricultural properties. In 2014, this focus was placed on potentially severe risk agricultural properties. 2015 saw the completion of installing back flow prevention devices for the severe risk agricultural properties and the moderate risk properties were started.
- The City continues to replace aged Asbestos Cement Water (AC) mains and is replacing these mains with Ductile Iron (DI) pipe. This program will be realized over the next ten years with an anticipated completion for replacement by 2025. There remains approximately 14,600 meters (13.1 %) of AC pipe out of a total system of 111,200 metres of water main for replacement.

Sanitary Sewer Utility

- The main purpose of the City's sanitary sewer system is the collection and routing of domestic and industrial sewage and waste waters to Metro Vancouver sewer trunk mains.
- All of the sewage and waste water from Pitt Meadows is treated at the Annacis Island Sewage Treatment Plant. The City is billed based on the volume of waste transferred to the Metro Vancouver system for treatment.
- For the past five years it has cost the City approximately \$1,250,000 a year to treat the water sewage produced in Pitt Meadows. The past few years have seen a decrease in the costs to treat sewage costs bringing the average cost down to \$1,200,000. Despite growth this cost has remained stable and is starting to show a decline.
- The infiltration and inflow (I & I) of rain water into the sanitary sewer system during wet weather events can hydraulically overload the sanitary sewer collection pipes, lift stations and wastewater treatment plants. For this reason, the City adopted a regulation in 2013 requiring the inspection of private storm and sanitary mains in an effort to ensure that I & I doesn't become a problem as a result of broken or illegal connections on private property.
- The City is continually improving its sanitary infrastructure with upgrades to existing Sanitary Lift Stations and re-lining existing aged Asbestos Cement (AC) Pipes with Cured in Place Polyethylene (CIPP). This upgrade extends the life of the pipes by approximately 50 years and is a low carbon solution to maintain our system (alternate technique requires trench excavation and laying new pipe). Funding for this program is every second year and is estimated to be realized over 20 years. There remains approximately 16,500 linear meters of the original 20,285 linear meters of AC sewer pipe for replacement.

Drainage Utility

- The entire drainage catchment includes 8,020 hectares of land with six pump stations in four of the drainage areas. 609 hectares of this catchment is in the City of Maple Ridge. 86% of the municipality's land base is located in the floodplain and is protected by 60.9 kilometres of dikes. Therefore, Pitt Meadows needs to continually move large volumes of water out of the community. (See the Pitt Meadows Catchment Area map at the end of this section.)
- Despite on-going investments in the drainage system, its infrastructure continues to age faster than the City's current rate of replacement, which in turn drives up operating costs. One of the real challenges is the cost of upgrading and/or replacing infrastructure. As a result, many of the stations are operating well beyond the expected useful life to align with the infrastructure replacement/upgrade budget.
- Rising hydro costs continue to be a concern for the drainage utility with rate increases estimated to be 4-9% annually over the next few years. The department continues to trial changes in the operation of the drainage system to reduce pump run times, i.e. turning off the pumps at certain times of year and allowing gravity drainage through the flood gates to take over. Future upgrades to more efficient pumps should also help mitigate the increasing costs of hydro.

Hydro Expenses

2012 = \$189,487

2013 = \$181,812

2014 = \$218,950

2015 = \$230,150

2016 = \$238,000 (estimate)

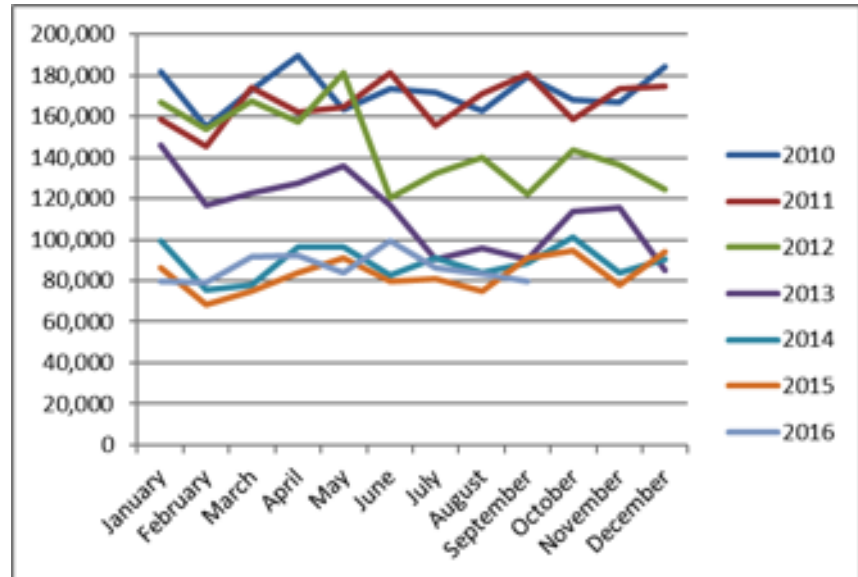
- The City is responsible for the maintenance of 204 kilometres of key ditches. Not all key ditches are located within City's rights of way which makes access a challenge. A three year program to clean Katzie Slough and improve the water conveyance in the slough ended in 2015. While conveyance has greatly improved from this cleaning program the weed problems still exist and cleaning will be required again to maintain the conveyance levels established. The Katzie Slough is the main drainage artery in Drainage Area No. 3. Maintaining improved water flow in this slough not only improves water conveyance, it also improves the slough's ability to provide habitat for fish and other aquatic species.



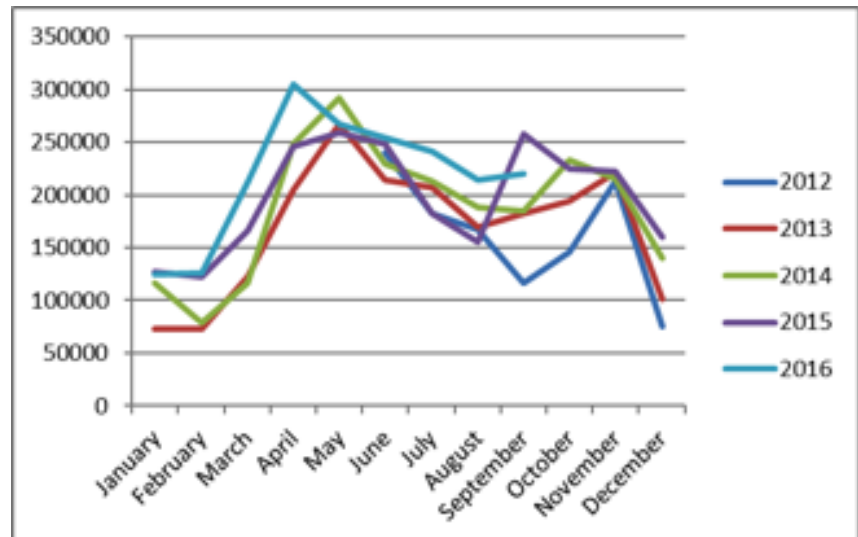


Solid Waste Utility

- In Metro Vancouver solid waste collection is a municipal responsibility, and disposal is a regional responsibility.
- The costs to provide these services are primarily determined by two factors: (1) the volume and cost to dispose of garbage and organics at transfer station/disposal facilities, and (2) the contracted cost of third party collection services.

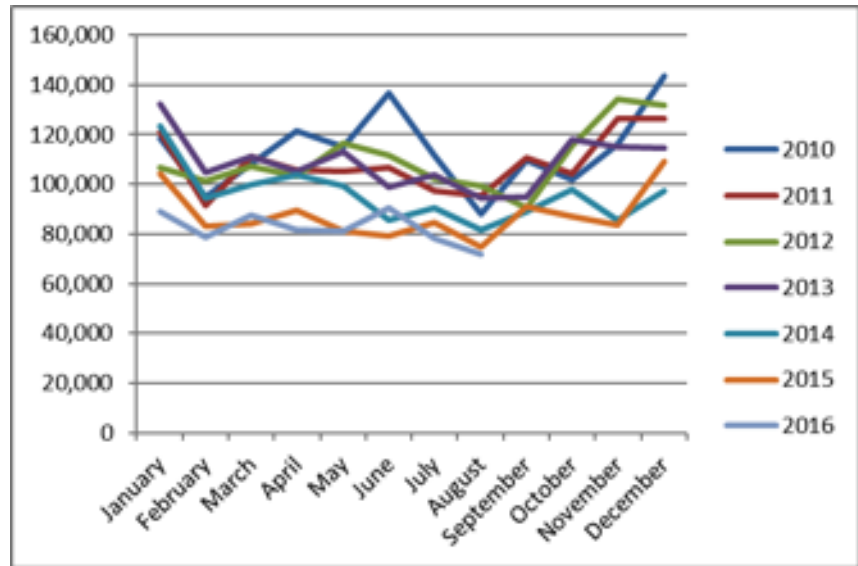


Annual Garbage Collection by Weight (kg)



Annual Green Waste Collection by Weight (kg)





Annual Recycling Collection by Weight (kg)

- In July 2013 the City rolled out a green waste (food scraps & yard trimmings) collection program and as a result annual garbage volumes are declining and the volume of green waste collected has been increasing. The City is exceeding the regional diversion rate efforts with the 2015 diversion rate equal to 70% and the 2016 diversion rate tracking to 72%. For comparison, Metro Vancouver established a goal of 70% diversion by 2015. The City will continue to strive for 100% diversion.

Diversion Rates

2012 = 65%
 2013 = 68%
 2014 = 73%
 2015 = 70%
 2016 = 72%

Tonnes of Garbage Collected

2012 = 1,745 tonnes
 2013 = 1,356 tonnes
 2014 = 1,067 tonnes
 2015 = 998 tonnes
 2016 = 1,033 tonnes (estimate)

- All of the regional diversion efforts have resulted in stabilizing solid waste removal costs. This trend is a shift from the steady increase that was being projected five years ago.
- In May 2011, the BC Recycling Regulation was amended to require producers to be responsible for the collection and recycling of packaging and printed paper. This amendment intended to shift financial and administrative responsibility for managing those materials from local government to producers. Businesses that sell packaged goods or supply printed paper to British Columbia residents are classed as stewards under the BC Recycling Regulation, making them legally and financially responsible for the costs of recycling the packaging and printed paper. Multi-Material British Columbia (MMBC) took over this program in May of 2014. Since then, effective September 2016, Multi-Material BC (MMBC) assumed responsibility for residential recycling services in Pitt Meadows. MMBC has contracted Smithrite Disposal Ltd. to provide weekly residential recycling pick up for residents living in single family and mobile homes and townhouses that currently receive curbside blue box service. Residents retained their existing recycling level of service and benefited from additional curbside segregated glass collection. This transition resulted in an increased service level at a lower cost to the Citizens of Pitt Meadows.

2016 ACHIEVEMENTS

Operations and Engineering

- **Active Transportation.**
 - 14 wheelchair letdowns were installed or replaced to improve accessibility throughout the City.
 - 5 trail head staggered fences were removed and replaced with bollards to improve accessibility to schools and parks
 - Facilitated Bike Awareness and Learn to Ride at Highland Park Elementary school
 - Harris Road sidewalk extension to Airport Trail (approximately 100m)
 - Cycling awareness and share the road signage installations
- **Public Consultation on Park Road and Somerset Drive.** In late 2014, concerns related to driveway ingress and egress, and traffic speeds were brought to staff's attention. Staff spent time with residents in the Park Road and Somerset Drive neighbourhood looking at options to improve various concerns at the intersection resulting in the removal of the curb extensions across Park Road, a new speed limit of 30 km/hr, painting of the cross walks with green high visibility paint, installation of flashing LED stop signs at Park and Bonson and the installation of three sets of speed cushions along Park Road. This implementation will be trialed for a one year period to determine the effectiveness of the traffic calming measures.
- **Policy Changes.** Council initiated changes to the Filming Policy and the Traffic Calming Policy. Both of these policy revisions included considerable public consultation processes in order to ensure all community interests were considered.
- **MMBC Transition.** Effective September 2016, Multi-Material BC (MMBC) assumed responsibility for residential recycling services in Pitt Meadows. MMBC has contracted Smithrite Disposal Ltd. to provide weekly pick up of residential recycling for residents living in single family homes, as well as townhouses and mobile homes that currently receive curbside blue box service. Residents retained their existing recycling level of service and benefited from additional curbside segregated glass collection. This transition resulted in an increased service level at a lower cost to residents.
- **Supported Public Consultation on Proposed Development Projects.** Residents have shown interest in a several industrial, commercial, and residential projects throughout the community this year. Staff worked to facilitate questions and answers on these projects as well as coordinate additional public input opportunities.
- **Irrigation Study.** In 2016, the drainage system was successfully modelled to determine its capacity. Additional modelling is still required to determine the feasibility to bring water into the system for irrigation purposes, and be able to sufficiently move water out of the system should inclement weather occur.
- **Drainage Area Four Upgrades.** A breach in the Area Four dike at the Pitt River was successfully repaired in 2016.
- **Phase I Flood Risk Assessment Application Submission.** The City prepared and submitted a comprehensive flood risk assessment application to Public Safety Canada's National Disaster Mitigation Program to inform flood risks. The proposed risk assessment, pending federal agency approval, serves as a foundational step in disaster mitigation and will identify flood hazards, potential impacts, and community and infrastructure vulnerabilities as well as the overall flood risk profile for the City.
- **Capital Works.** These achievements are highlighted in the Engineering and Operations Capital Assets Plan.

Environmental Protection and Stewardship

- **Environmental Stewardship Officer Recruitment.** This newly created position with the City was filled in April 2016. Various responsibilities include but are not limited to: policy and bylaw review, environmental review of development and soil/fill permit applications, processing soil/fill permit applications, conducting site inspections, coordinating environmental notifications and approvals, facilitating climate change initiatives, investigating environmental complaints, enforcing relevant bylaws, working with local stewardship groups/stakeholders and promoting environmental awareness throughout our community.
- **South Bonson Industrial and Residential Development Proposals.** Reviews of various environmental reports and plans are complete and will continue for the project's duration. These reviews include Construction Environmental Management Plans, Erosion and Sediment Control Plans and other technical reports. The City initiated an independent environmental review by a Qualified Environmental Professional (QEP), which was completed in March 2016. This process spearheaded an independent contaminated sites investigation in May 2016 and continues in the winter of 2016. To assist in monitoring these sites, the City has appointed a third-party, Independent QEP in May 2016 to assist with technical report and plan reviews and conduct regular site audit inspections.
- **Bylaw and Policy Review.** A review with an environmental lens focusing on existing bylaws and policies are currently underway. Various bylaws and policies include Soil Deposit and Fill Removal Bylaw, Drainage System Protection Bylaw, Subdivision and Development Servicing Bylaw, Bylaw Notice Enforcement, Demolition application and Tree Preservation Policy.
- **Invasive Species Mitigation and Monitoring.** Provincially regulated noxious weeds such as Japanese Knotweed are being treated bi-annually and monitored by a Qualified Professional.
- **Environmental Mapping.** The City created an environmental layer to update its Geographic Information Systems mapping application, MapGuide. This mapping layer better informs land use decision making processes. Various attributes such as fish and species at risk element occurrences and invasive species are currently included and made available to staff, with additional attributes and updates expected for the coming year.
- **Katzie First Nation's Eco-cultural Restoration Project Endorsement.** The City provided a Letter of Support to the Katzie First Nation for their multi-phased, multi-site Eco-cultural Restoration Project along the Alouette River. One site was completed last year (Hale Road), and two sites have been constructed this summer (east of Harris Road on both north and south foreshores), with a final site to be constructed in 2017 (Neaves Road). These legacy projects within the City of Pitt Meadows support ecological and cultural values by restoring wapato as a food source and enhancing habitat for species at risk.
- **Watershed Watch Salmon Society Funding Application Endorsement.** The City provided a Letter of Support to the Vancouver Foundation for Watershed Watch Salmon Society's funding application targeting select initiatives that advance policies and practices which address and respond to climate change and other key environmental issues.
- **Alouette River Management Society (ARMS) Funding Application Endorsement.** The City provided a Letter of Support for ARMS' funding applications to the BC Hydro Fish and Wildlife Compensation Program. This initiative involves a consortium effort with various agencies, the Katzie First Nation and other stakeholders to complete a fish passage feasibility study for the Alouette Dam at the headwaters of the Alouette River in Golden Ears Provincial Park.
- **Community Engagement.** The Environmental Stewardship Officer is a City of Pitt Meadows representative for various Metro Vancouver Regional District committees, including the Regional Planning Advisory Committee's - Environment Subcommittee, Regional Invasive Species Task Force, and the Regional Engineers Advisory Committee – Climate Protection Subcommittee.



Sustainability and Green Team

- **Carbon Neutrality.** The City of Pitt Meadows is pleased to have achieved carbon neutrality in 2015. The carbon neutral status achieved is primarily attributed to participation in regional initiatives in Metro Vancouver, specifically the Household Organic Waste Diversion and Vancouver Landfill Gas Capture Programs. Increased efficiencies occurred in select service areas such as solid waste management, fire and administration compared to that of 2014. The City of Pitt Meadows continues its commitment to reducing greenhouse gas emissions and achieving carbon neutrality and sustainability.
- **Earth Day.** Pitt Meadows celebrations are held annually on April 22. Celebrations this year included an event targeted towards youth ages 3-10 that featured entertainers, and interactive displays from organizations working in the community such as the Alouette River Management Society, Kanaka Education and Environmental Partnership Society, Return-It, Waste Management. The City gave out native plants to community members attending the event, and promoted a rain barrel program.
- **Workforce Conservation Awareness Campaigns.** The Green team successfully ran its fifth and final year of the workforce conservation awareness program with BC Hydro. Monthly energy conservation campaigns focused on energy reductions through reducing use of phantom power (turning off and /or unplugging devices not in use), using natural light and identification of daily acts that reduce energy use and waste (Recreation Centre energy reduction campaign; printing reduction).
- **Loblaw's Shoreline Cleanup.** City staff participated in Loblaw's Shoreline Cleanup event on August 12, 2016 along the Alouette River, east of Harris Road, clearing the shoreline of waste and recyclables.
- **Anti-idling Policy.** The City adopted an Anti-idling Policy aimed at its own fleet and encouraged anti-idling practices by community members.
- **Evaluation of Greenhouse Gas Emission Reduction Projects.** As a climate change initiative to reduce the City's greenhouse gas emissions, the city is engaging a Qualified Professional to evaluate the feasibility and potential of reduction option projects.

KEY CHALLENGES FOR 2017

- **Development Revenue.** Revenue generated from engineering services and permitting is cyclical and is driven by market conditions and only a few significant projects. As a result predicting revenues is challenging. As a means of addressing the cyclical nature, the City is establishing a reserve fund to stabilize development revenue over the next ten years.
- **Short-Term Resource Needs.** The complexity of recent development has created increased demands in the engineering and environmental stewardship departments that are exceeding current staffing levels. Staff is looking at strategies to address this short term need.
- **Increasing Demand for Services.** There are ongoing challenges of servicing the needs of an increasing population and infrastructure inventory with minimal change to resources. Citizen expectations regarding the delivery of service are increasing despite the pressure to reduce service costs.
- **Public Concerns and Inquiries.** Customer service is a priority for the City. Supporting the public is a significant function of our work that is not documented in the work program, but requires considerable allocation of staff time. Some of the areas of growing community concern include traffic calming, neighborhood development, and environmental protection.
- **Resident Support.** Often, when a resident of Pitt Meadows has a question or concern about their quality of life the usual first contact made is to City staff. Concerns regarding neighbouring activities, or even one's own activities, are often vetted through staff and resolved as required. Considerable time and effort is devoted to listening and providing general assistance to residents.



- **Quality of Life.** Part of maintaining the high quality of life established for residents means reviewing the benefits of routine maintenance and repair of our infrastructure, and bylaw establishment to support residents and businesses in maintaining their assets.
- **Active Transportation.** The City has been working hard to increase accessibility throughout our Community. An area of active transportation that needs continued attention is retrofitting neighborhoods where sidewalk slopes, curb let downs and gates are not accessibility compliant and are creating challenges for people who need mobility devices, cyclists and strollers. In 2016, the Active Transportation Committee was able to retrofit 14 curb let downs, however, there is a large inventory of retrofits still required. The high cost of reworking this infrastructure will likely result in multi-year replacement program. In the mean time staff is creating a plan that proactively begins alterations along routes to schools and parks, while also responding to areas where residents are raising concerns.
- **Traffic Calming** – In recent years residents have been voicing increasing concerns with vehicular speeds and pedestrian safety in their neighborhoods. The City's Transportation Plan and Pedestrian and Cycling Master Plan address some of these concerns through suggested neighborhood improvements. The City has prioritised these improvements and begun implementation. In 2016, the traffic calming policy was revised significantly after public consultation. This public consultation included input from experts in the traffic engineering sector, ICBC, RCMP, speed watch and city staff. Discussions centered on the three E's of traffic calming, Education, Engineering and Enforcement.
- **Dike Infrastructure Planning.** Regional work has begun to look at dikes in the Lower Mainland with respect to rising sea levels and seismic stability. As a result new standards are emerging that suggest not only increasing the height of dikes, but also the width and structural stability. In 2017 the City will be initiating a study to review the current status of our dikes in comparison to provincial criteria and to complete a cost benefit analysis of performing upgrades. This work will aim to identify most critical areas and provide the necessary background to lobby other levels of government for funding.
- **Changing Weather Patterns.** Weather patterns are changing resulting in increased storms, longer dryer summers and overall changing weather patterns. As a result, there is an impact on our infrastructure with respect to performance and maintenance needs.
- **Competing Interests between Drainage and Irrigation.** An Integrated Water Management Master Plan is required given the number of competing interests for water levels throughout the community including; irrigation, drainage, fish habitat, invasive species management, recreational, and provincially issued water licences.
- **Maintaining Infrastructure.** Continued long range infrastructure planning and full-life cycle accounting is required to provide for the replacement of aging and deteriorating infrastructure, capacity for growth and changing regulatory requirements. Infrastructure, in particular drainage, is deteriorating faster than the current rate of replacement and the historic lack of funding for sufficient repair and maintenance of these assets continues to create funding challenges.
- **Drainage.** Ditch cleaning is on-going through both a rotation program as well as on an as-needed basis. The two pronged approach ensures that all sloughs and ditches are assessed on a consistent rotation while at the same time responding to needs in areas where water flow is impeded. Maintaining sloughs is important for ensuring water flow to pump stations during high water events. A spin-off benefit to this program is improved habitat for fish.



- **Vegetation Management** – Managing vegetation in the rural drainage system is physically demanding, labour intensive and time-consuming work that is made increasingly more difficult due to the presence of aquatic invasive species. Milfoil and Parrot Feather infestations in many areas of the system are driving up operating expenses related to bar screen cleaning and ditch maintenance. A newly identified species, Dotted Smart Weed is now also adding to the challenges of vegetation management. Vegetation is proposing two challenges for the City: growth is occurring faster than time and budgets to keep up with removal, and the increased long hot summers are accelerating plant growth. The City, along with other Metro Vancouver municipalities, is looking for creative solutions to manage this problem.
- **Drainage Pump Stations** - Pitt Meadows has six pump stations throughout the community. These stations dramatically reduce the flooding events in Pitt Meadows. Many of these stations are aged infrastructure working on technology that is no longer used and difficult to find parts to complete maintenance and respond to repair needs. Where possible, stations are retrofitted to extend the life of the station. As well, new technology such as trash racks have been installed to improve the water flow and effectiveness of the stations. Even with the improvements being made to the system new infrastructure is required to ensure the drainage needs are met.
- **Infiltration and Inflow.** The infiltration and inflow (I & I) of rain water into the sanitary sewer system during wet weather events can hydraulically overload the sanitary sewer collection pipes, lift stations and wastewater treatment plants. This can lead to volume capacity concerns and treatment of additional waste.
- **Organics Ban** - Metro Vancouver implemented a ban on all organic material in the garbage stream in 2015. The introduction of organics collection in 2013 has made the transition easier for our community. Fines are now in effect for non-compliance; to date Pitt Meadows has been successfully diverting our green waste out of the garbage stream. A large regional education campaign by Metro Vancouver is helping with compliance. Continued local education is critical in maintaining the City's diversion and avoiding increased costs to the solid waste utility to pay for fines.
- **Commitment to Sustainability** – The City has sustainability goals, but tight budgets have limited resource allocation to sustainability efforts such as focusing on actions outlined in the Community Greenhouse Gas Reduction Plan and the Community Sustainability Plans. The City meets its mandated responsibilities often resulting in mandates leading our efforts rather than supporting our efforts. Further discussion on sustainability goals and activities in Pitt Meadows is needed.



OPERATIONS & ENGINEERING - OPERATING

KEY INITIATIVES 2017

Division	Initiative	Target
Engineering	<ul style="list-style-type: none"> The previous Street Parking Strategy Review concluded in 2014. However, staff will be revisiting the idea of time durated parking restrictions in historical commuter parking locations. This review will include public consultation through surveys distributed to home owners and commuters. 	Q1
	<ul style="list-style-type: none"> In past years, Council has appointed a Rail Community Advisory Panel (CAP) that met bi-annually to provide a forum for the exchange of information between the Canadian Pacific Railway and the City of Pitt Meadows. This committee included representatives from Council, CP management, community members, and Pitt Meadows staff. This committee will be re-established for the exchange of information and the resolution of challenges. 	Q1
	<ul style="list-style-type: none"> The engineering department will perform rail obstruction counts to document impacts on vehicle traffic at the City's two grade crossings. 	Q3
	<ul style="list-style-type: none"> The City does not currently have a Driveway and Boulevard Replacement Policy to follow when these areas are disturbed for installation of new capital works or maintenance of existing infrastructure. This land is City owned, however, it is the frontage and access point for homes and storefronts. To date, crews have attempted to replace like for like when disturbances are required. 	Q2-Q3
	<ul style="list-style-type: none"> The previous Pavement Management Study was completed in 2012. Pavement integrity is a driving factor for scheduling a number of our capital investments. 	Q3
	<ul style="list-style-type: none"> In 2016, the Active Transportation Committee is looking at projects to enhance pedestrian safety and accessibility in various parts of the community. 	Q1-Q4
	<ul style="list-style-type: none"> Transportation Public Consultation. With both a regional highway and railroad tracks running through the community, outreach on transportation network options is planned to allow Council to better plan for the transportation needs of the community. 	Q1-Q2
	<ul style="list-style-type: none"> Staff to review the current engineering contract and determine a schedule for re-issuing an Engineering Consultant RFP. 	Q1-Q2
Operations	<ul style="list-style-type: none"> A review of the drainage system for the feasibility to bring water into the system for irrigation purposes and be able to move water out of the system sufficiently if inclement weather occurs. 	Q1-Q2
	<ul style="list-style-type: none"> An IWMP is required given the number of competing interests for water levels throughout the community including; irrigation, drainage, fish habitat, invasive species management, recreational, and provincially issued water licences. This initiative will require a large amount of research and extensive community consultation. 	Q1-Q4
	<ul style="list-style-type: none"> The Building Canada Community Fund opened up a second intake in spring 2016. The City submitted another application to support the replacement of this pump station and have not received word on grant allocations at this time. Alternatives are being reviewed simultaneously. 	Q1-Q4
	<ul style="list-style-type: none"> In 2017, there is no major slough cleaning planned. Cleaning in key ditches will continue as part of the annual maintenance program. 	Q1-Q4



OPERATIONS & ENGINEERING - OPERATING

Division	Initiative	Target
Environ- ment / Sustainability	<ul style="list-style-type: none"> Continue the conversion of lights to LED bulbs as replacement is needed in City buildings. 	Q1-Q4
	<ul style="list-style-type: none"> Annual celebration of earth day with a community event that involves business and the community with a large component for youth. 	Q1-Q4
	<ul style="list-style-type: none"> Continue public outreach to educate the public on where they drop off unwanted items to be recycled for free or low cost. The campaign will focus on the top items that are being illegally dumped, and in reducing waste generations to landfills. 	Q1-Q4
	<ul style="list-style-type: none"> Bylaw and Policy Reviews / Development. A number of current policies and bylaws require review with a focus on environmental protection and sustainability, while others require development. These policies and bylaws include but are not limited to: The Soil Deposit and Fill Removal Bylaw, Subdivision and Development Servicing Bylaw, Pesticide Use Control Bylaw, Property Maintenance Bylaw, Riparian Management, Vegetation Management, Erosion and Settlement Control, Contaminated Sites, Air Quality. 	
	<ul style="list-style-type: none"> Community Outreach and Stewardship Events. Community education and participation are critical for enhancing ownership and protecting the City's natural features. Staff will organize opportunities to increase public involvement in this area and explore various funding opportunities to facilitate these outreach programs and events. 	Q1-Q4
	<ul style="list-style-type: none"> Farmland Advantage Forum. Farmer to farmer forum, with a focus on sustainable farming practices and stream side protection. Funding through the Investment Agriculture Foundation of BC and the Ministry of Agriculture is being explored to determine if a Pitt Meadows pilot project is possible. 	Q2
	<ul style="list-style-type: none"> Greenhouse Gas (GHG) Emissions Inventory Software. Software to track GHG emissions and calculate savings for reporting purposes. 	Q1-Q4



OPERATIONS & ENGINEERING - OPERATING

PROPOSED OPERATING BUDGET

Engineering and Operations Financial Summary - 2017 thru 2021

	2016 Approved Budget	2017 Proposed Budget	Proposed Changes for 2017		2018 Proposed Budget	2019 Proposed Budget	2020 Proposed Budget	2021 Proposed Budget
			\$	%				
Operating:								
Revenue (net of reserve transfers)								
Engineering	(25,000)	(25,000)	-	0.0%	(22,500)	(22,500)	(22,500)	(22,500)
Operations Administration & Equipment	(583,500)	(593,650)	(10,150)	-1.7%	(597,650)	(601,650)	(601,650)	(605,650)
Transportation	(647,100)	(635,700)	11,400	1.8%	(638,500)	(641,300)	(644,100)	(647,000)
Diking Maintenance	(142,000)	(142,000)	-	0.0%	(142,000)	(142,000)	(142,000)	(142,000)
Sustainability	(16,000)	(17,000)	(1,000)	-6.3%	(17,000)	(17,000)	(17,000)	(17,000)
Total Revenue (net of reserve transfers)	(1,413,600)	(1,413,350)	250	0.0%	(1,417,650)	(1,424,450)	(1,427,250)	(1,434,150)
Expenses								
Engineering	290,600	298,100	7,500	2.6%	309,900	319,600	328,200	337,000
Operations Administration & Equipment	603,770	599,350	(4,420)	-0.7%	614,750	630,250	643,250	657,150
Transportation	1,468,500	1,500,600	32,100	2.2%	1,510,900	1,521,300	1,531,400	1,542,000
Diking Maintenance	333,800	333,800	-	0.0%	336,400	339,000	341,700	344,400
Sustainability	124,100	138,500	14,400	11.6%	145,700	147,900	149,700	151,500
Total Expenses	2,820,770	2,870,350	49,580	1.8%	2,917,650	2,958,050	2,994,250	3,032,050
Net Operating Expenses	\$1,407,170	\$1,457,000	\$49,830	3.5%	\$1,500,000	\$1,533,600	\$1,567,000	\$1,597,900

Key Budget Changes for 2017:

Revenues & reserve transfers

MRN reserve transfer	43,000						
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Expenses

Salary and benefits	25,300						
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Carbon offset purchases	9,000						
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Building maintenance	2,200						
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Equipment & fleet net (mtc., fuel, insurance, lease)	(11,820)						
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Operations administration & equipment charges to utilities	(20,150)						
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Inflationary and other adjustments	2,300						
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Change in Net Operating Expenses	\$49,830						
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