May 3, 2019

Village Update

Your Weekly News & Updates

Updates from Mayor and Council

From the desk of Councillor Barmeier

Back to the Future in Lions Bay – Supporting the Adoption of ZEVs in BC

With gas prices soaring and the need for environmental protection on everyone's mind, alternative fuel vehicles are gaining in popularity. In fact, by 2025 10% of all cars sold in BC will have to be ZEV, 30% by 2030, and 100% by 2040. Currently you will find almost every auto manufacturer has ZEV models on offer.

The Lions Bay Official Community Plan outlines our goals in policy and action for the protection of air quality and noise levels.

Electric vehicles do both of these things; zero emissions and near silent operation.

On March 19th, 2019 council carried my motion to investigate DC Fast charging in Lions Bay and allocated up to $5,500 for this first step. We want to take direct action to provide ZEV fueling infrastructure for Lions Bay residents as well as passers-by. Wouldn't it be nice to have cleaner air to breathe and reduce the amount of noisy petrol vehicles passing through? It's a win-win for everyone.

What is a ZEV?

Specifically, ZEV stands for zero emission vehicle. Examples of these are BEV (battery electric vehicle) and FCEV (fuel cell electric vehicle). Currently the majority of ZEVs on offer are battery electric.

What is DC fast charging?

DC fast charging is a quick way to charge the battery in your electric car. BEVs can be charged in 3 different ways. The industry jargon refers to level 1, level 2, and level 3 charging. Where level 1 is a conventional 120V AC plug found around your house. Level 2 is similar in power supply to a stove's 208-240V AC, 30-40 amp circuit. Level 2 chargers are generally installed in your garage or driveway by an electrician. Level 3 is a high voltage direct current (DC) charging station.

Level 3 chargers, or DC fast chargers, are generally reserved for municipal, institutional, or commercial settings.

Table 1. Typical charging times for various chargers.

Charging level	Charging voltage	Typical installation	Charger output	Range gained in 30 minutes	Charge time for 100km range
Level 1	120 V AC	Ordinary household plug	7 kW	~25 km	~4 hours
Level 2	208-240 V AC	Home based charger	22 kW	~75 km	~80 minutes
Level 3 – DC fast charging	600-1000 V DC	Municipal or institutional	150 kW	~300 km	~20 minutes

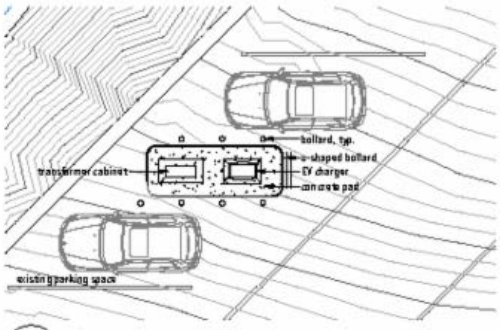
How much does it cost to drive 100 km in an average petrol vehicle versus an average electric vehicle?

Energy source	Cost per unit	Total required to travel 100 km	Cost per 100 km
Petrol	$1.70 per L	10 L	$17.00
Electricity	$0.0945 per kWh	18 kWh	$1.70

*the numbers here are average best estimates only.

What does a DC fast charging station look like?

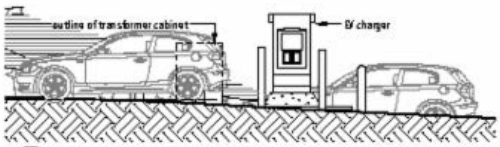
We had a local architect develop a concept sketch for us. They believe in this initiative so they did the work for free.



1 A1 plan
scale - 1/8" = 1'-0"



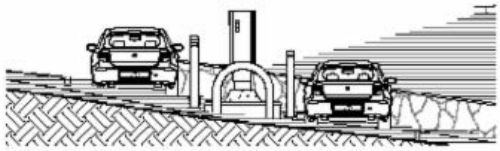
4 A1 3d view 1



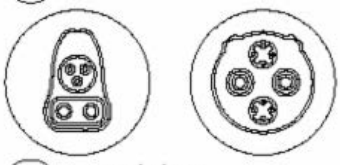
2 A1 section 1
scale - 3/16" = 1'-0"



5 A1 3d view 2



3 A1 section 2
scale - 3/16" = 1'-0"



6 A1 ev connector types

vehicles served	2 at the same time
station output	up to 62.5 kW
battery voltage supported	200 to 1000 Volts
connectors supported	CHAdeMO, and SAE J1772 Combo

7 A1 station specifications

What would a DC fast charging station cost and how would we pay for it?

While costs may vary due to a few factors, typical costs for a DC fast charging station are about $80,000. The federal government, through the Electric Vehicle and Alternative Fuel Infrastructure Deployment Initiative is paying anywhere from 75-100% of the cost of eligible stations in the form of a grant. Of course, we need to apply and just like our infrastructure grants we are not guaranteed to win, but at least we've agreed to try.

We welcome your thoughts and feedback on this initiative. Click here or email feedback@lionsbay.ca or drop off your comments at the Village Office or through their afterhours mail slot. Your feedback will be reported back to Council next month.

With kind regards and an eye on the future,
Your councillor and engineer at heart, Norman Barmeier, P.Eng.



For more information on the Province's zero emission mandate click here.

To find out about current ZEV incentive programs click here.

Updates from the Municipality



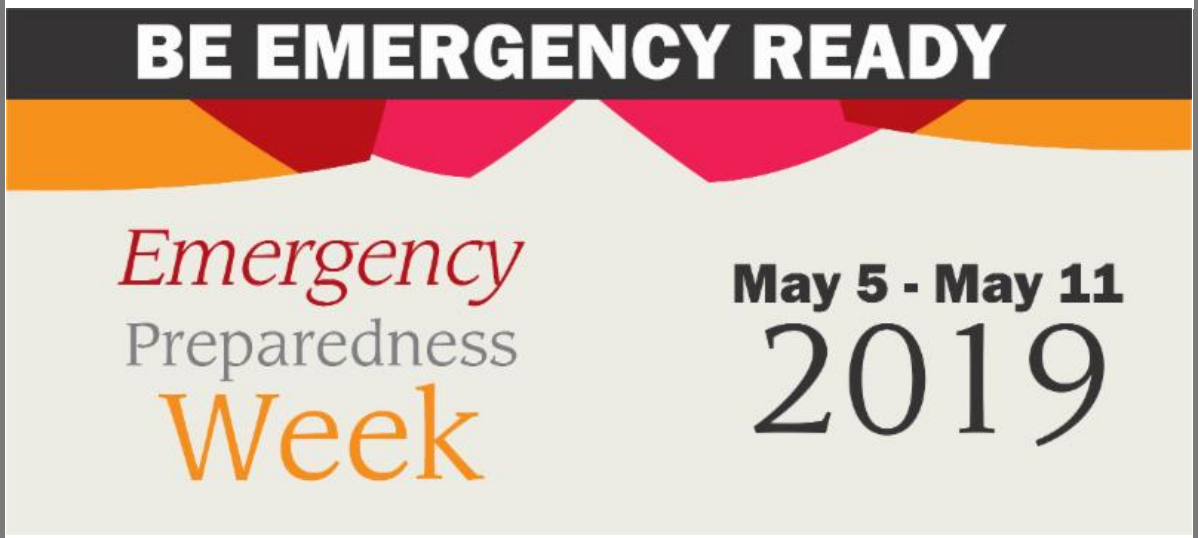
Being so close to thriving natural ecosystems, Lions Bay shares its urban environment with wildlife big and small – and that means that we need to be mindful of potential conflicts between humans and wildlife.

The Municipality's web site contains materials on how to reduce conflict with wildlife including bears, cougars, and coyotes. Keeping the community safe is a shared responsibility – from proper management of garbage, compost, fruit trees and other anthropogenic food sources.

Reports of dangerous wildlife in an urban setting or reports of wildlife in conflict should always be reported to the COS 24-hour hotline at 1-877-952-7277. This is also the number for Report All Poachers and Polluters (RAPP).

The tennis court is now open for spring and summer use!





EMERGENCY PREPAREDNESS WEEK: ARE YOU READY?

This year's theme for Emergency Preparedness Week, which runs from May 5 to 11, is Be Emergency Ready

Life is busy and making time to ensure you're prepared for an emergency can sometimes fall to the bottom of the list. The Village of Lions Bay has an emergency plan that will be activated in the event of a crisis, but everyone has a role to play to stay safe – especially you!
There are lots of things that you can do to be better prepared, such as:

- Preparing an emergency plan so that every member of your family understands what to do and where to meet following an earthquake or other disaster
- Having enough supplies to be self-sufficient for at least 72 hours, including food, water, and extra clothing
- Knowing where your nearest disaster support hub is and planning how you would get there from home or work

By creating a preparedness plan, you empower yourself and your family to be as resilient as possible, and it can be as simple as starting a conversation. Emergencies happen, and planning for them is a shared responsibility.

DON'T FORGET TO SIGN UP FOR LIONS BAY ALERT

Lions Bay Alert enables the Village of Lions Bay's Administration to communicate important information quickly in the event of emergencies. Register today and know you'll have the up-to-date information you need during an emergency.



Industra's crews will switch the southern portion of the Village (south of Alberta Creek) onto the temporary 100,000-gallon Oceanview tank next week. Crews will allow the current 400,000-gallon Harvey tank to empty prior to this switch tanking place. From there the old Harvey tank will be deconstructed. This is a systematic

disassembly and manual breaking up of the concrete tank that is expected to take up to a month to accomplish. In addition to this significant step, crews will also be excavating along the roadway to install conduit for communications cabling from the Oceanview cul-de-sac to the Harvey treatment plant.

Access along the gravel road to the treatment plant will be severely restricted and congested with heavy vehicles. Industra will do its best to keep the disruption to a minimum but cannot guarantee unfettered access.

Please accept our apologies for any inconvenience and bear with us as we see this critical infrastructure project commence. Thanks for your patience and understanding.

Please provide any feedback or comments to Public Works via email at works@lionsbay.ca.

COASTAL WILDFIRE NEWSLETTER IS BACK

Please click here for the first Coastal Wildfire Newsletter of the 2019 season. Included this season you will find a lot of information about the BC Wildfire Service's Prevention program – FireSmart! Note that tomorrow, May 4, 2019, is Wildfire Community Preparedness Day.

You can find new issues as they are sent to us on the Village website here.

Note: All meetings take place in Council Chambers unless otherwise noted. The Village Office is open until 6:30 pm on Regular Council Meeting nights. Please check the Meeting Calendar for changes or cancellations.

Council and Committee Meetings

- Curly Stewart Memorial Award Committee - May 6 at 6:00 pm
- Regular Council Meeting - May 7 at 7:00 pm
  (Presentation of 2018 Audited Financial Statements by BDO Canada)

Meeting Calendar

What's happening in the community?

ARTS & GARDEN FESTIVAL



MARK YOUR CALENDAR:

LIONS BAY ARTS AND GARDEN FESTIVAL!

Come and enjoy Lions Bay Arts and Garden Festival SUNDAY, MAY 26. Garden and art displays, native plants, art and jewellery for sale, performances by local musicians, garden tips by our resident Master Gardener, and more.
Tour gardens 11:00 a.m. to 3:00 p.m. Wine reception starts at 4:30 p.m.
ALL ARE WELCOME!

Map & More details to follow.

Lions Bay Community Scholarship Foundation



Calling All Grade 12 Students - LAST CHANCE

The Lions Bay Community Scholarship Foundation presents Scholarships to successful Grade 12 applicants from the Lions Bay community who are pursuing further education at a post-secondary institution. Applications are due by 4 pm on Tuesday, May 7, 2019. Click for: Information and Application Form.

LIONS BAY COMMUNITY GARDEN



Enjoy growing your own veggies? Have you ever wanted to start a vegetable garden or need extra space to expand your own vegetable garden and don't have enough space at home?

Come join us in the Lions Bay Community Garden, located in the Kelvin Grove Beach Park. Garden plots are available at $25.00/Year. For more information contact Tina Schneider @ lionsbay.gardens@gmail.com

LIONS BAY Event COMMITTEE

THE BIGGEST RECYCLING EVENT OF THE VILLAGE
LIONS BAY GIVEAWAY WEEKEND

STARTING SATURDAY, MAY 4TH AT 9AM
UNTIL DUSK ON SUNDAY MAY 5TH

ALL LIONS BAY VILLAGERS ARE INVITED TO HELP US KEEP OUR UNWANTED ITEMS OUT OF THE LANDFILLS.

HOW WILL WE DO THIS?
EASY!

PUT OUT ANY UNWANTED ITEMS AT THE END OF YOUR DRIVEWAY BETWEEN MAY 4TH AND MAY 5TH LABELED FREE (FURNITURE, SPORTS EQUIPMENT, GARDENING TOOLS, BOOKS, TOYS, CLOTHES, TOOLS, WOOD, APPLIANCES, ETC.).

DRIVE, WALK OR CYCLE AROUND THE VILLAGE DURING THAT WEEKEND AND SEE WHAT KIND OF TREASURES YOU CAN FIND FOR YOURSELF!

CONTACT YOUR NEIGHBOURS AND ORGANIZE A BLOCK PARTY SOME TIME DURING THAT WEEKEND. IT COULD BE A GREAT TIME TO 'SHOP' AND GET TO KNOW ONE ANOTHER.

CONTACT HEATHER HOOD AT HOODINLIONSBAY@GMAIL.COM IF YOU HAVE ANY QUESTIONS.

****PLEASE REMIND CHILDREN NOT TO DROP WANTED BIKES + SCOOTERS NEAR FREE SIGNS**