



Integrated Vegetation Management: Cultural Control Method – Pollinator Meadow

IVMA Seminar 2016

Rene Roddick, Vegetation/Pest Biologist BC hydro

Mechanical Vegetation Maintenance - pruning



How many current BC Hydro staff
have received induction shocks
trimming the pine trees?



Prior to Removals



Prior to Removals



[illegible]

No.	Revisions	Made	Child	Imp.	Imp. date	Functional Code
Project:		2L04 - Bridgeport				
Date complete:		Industrial Park Greenway				
Checked by:						
Projection: Lambert Conformal (cm) (cm)						
Dwg. No.	Dwg. Scale: 1:1000	Sheet:	1	of	1	
Reference:		Date Printed: 2014-02-03		Printed by: mland		

Bath Slough Ecological Project



Flight path



Tree removals



Wildlife trees



Chipping



Stump Grinding



Following Removal



What is the maximum height for compatible species planted under transmission powerlines?

○

3

Tree Replacement Planting Plan

PLANT LIST

ITEM	QUANTITY	DESCRIPTION	SIZE	SPACING	NOTES
1	1	Planting hole	12"	12"	Planting hole
2	1	Planting hole	12"	12"	Planting hole
3	1	Planting hole	12"	12"	Planting hole
4	1	Planting hole	12"	12"	Planting hole
5	1	Planting hole	12"	12"	Planting hole

1. Planting hole

2. Planting hole

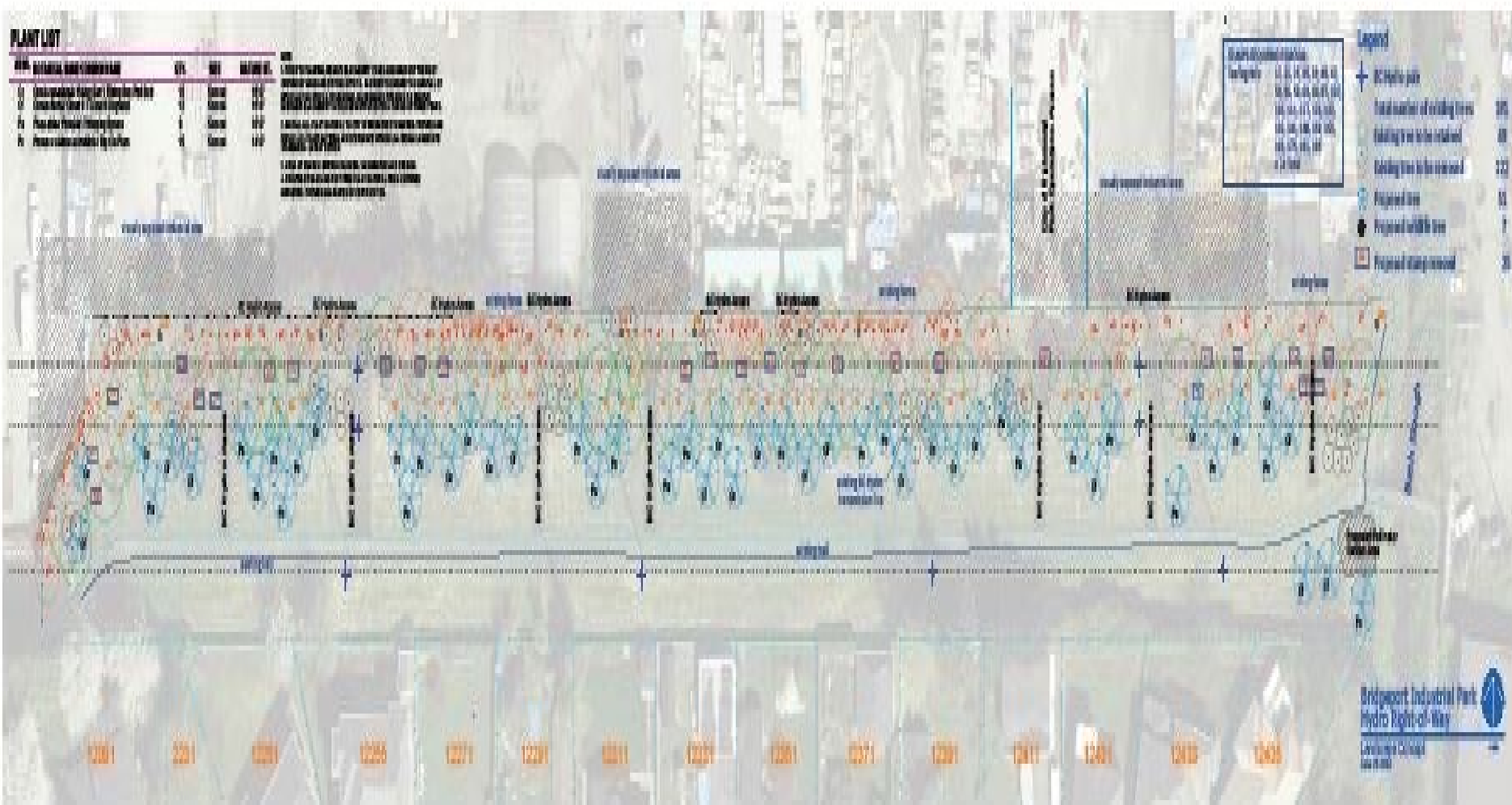
3. Planting hole

4. Planting hole

5. Planting hole

Item	Quantity	Description
1	1	Planting hole
2	1	Planting hole
3	1	Planting hole
4	1	Planting hole
5	1	Planting hole
6	1	Planting hole
7	1	Planting hole
8	1	Planting hole
9	1	Planting hole
10	1	Planting hole

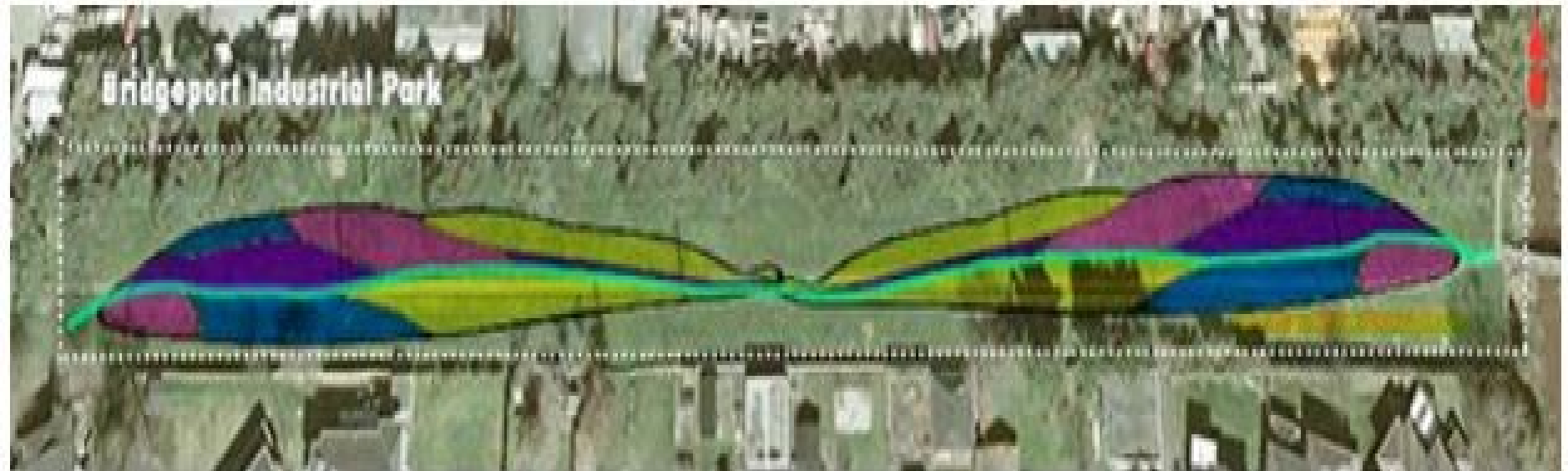
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9	1	Planting hole
10	1	Planting hole



An aerial photograph of a residential neighborhood with property lines and addresses overlaid. The image shows a grid of streets including Barnes Dr, Bath Rd, and Fry Dr. Several properties are highlighted with yellow outlines, including one at 12091 and another at 12051. The area is characterized by green lawns, trees, and various residential buildings.

BARNES DR

Pollinator Meadow Layout



Above: An aerial view of the pollinator meadow, planted in the shape of bee wings.

Final Product after Clearing



After Tilling



Right Trees



Pollinator Meadow



Partnership Signage



Tweets

City of Richmond @Richmond_BC · 21h
It's #NationalPollinatorWeek ! Learn how
#RichmondBC is supporting native
pollinators bit.ly/BathSloughRevit



@bchydro
Today at 1:25pm

We're supporting pollinators in @Richmond_BC with
a new wildflower corridor #PollinatorWeek
<http://ow.ly/MESw301wP2f>



BC Hydro @bchydro · 20h
We're celebrating #PollinatorWeek with
our new corridor in the City
of @Richmond_BC. ow.ly/bVij301sePL



Aerial View of Meadow



Aerial Layout



Aerial Close-up



Flower List

- The cover crop included a pollinator-friendly blend of yellow mustard, sweet alyssum, crimson clover, and phacelia.



What is this?





- The research team worked with students from the nearby H.J. Cambie Secondary School's to produced an extended sunflower wall as part of the initial pasture design. Students potted 600 sunflower seeds, cared for the seedlings, and then planted them on-site.
- The research team also worked with students from the Kwantlen Farm School who helped to harvested the mustard crop. The Kwantlen students utilized the harvested seed to produce jars of mustard.



Seeds, Seeding, Counting and Collecting



Excerpt from Compatible Use Guidelines for BCH Rights-of-Way

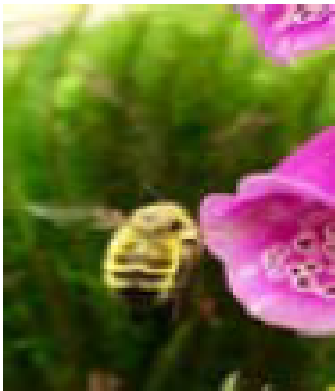


Photo courtesy of Janet Bradner

POLLINATOR CORRIDORS

While the management of vegetation along BC Hydro ROW requires a restrictive approach to trees, there are opportunities to introduce other ecological enhancements to these corridors - such as pollinator fields. Pollinators—especially bees—are an integral part of a healthy ecosystem and an invaluable asset to food production.

One of the options available to help support the work of these pollinators is to use the open and contiguous aspects of power line corridors to create pollinator-friendly habitat. As part of a re-vegetation plan or site development, BC Hydro encourages the establishment and use of pollinator fields along our ROW.

Pollinators

Bumble Bees

- Social (have queens + workers)
- Ground-nesters, need existing holes
- Spring, Summer, early Fall



Honey Bees

- Highly Social
- Non-native, managed bees



Sweat Bees

- Solitary to Semi-social
- Ground-nesters
- Spring and summer



Others

- Flies, wasps, butterflies, beetles, and birds can all be pollinators



Mining Bees

- Solitary
- Ground-nesters
- Mostly spring



Hairy-Belly Bees

- Solitary
- Cavity- or Ground-nesters
- Masons in spring, use mud
- Leafcutters summer, use leaves



"Bees of the world"

Bridgeport Bee Hotel

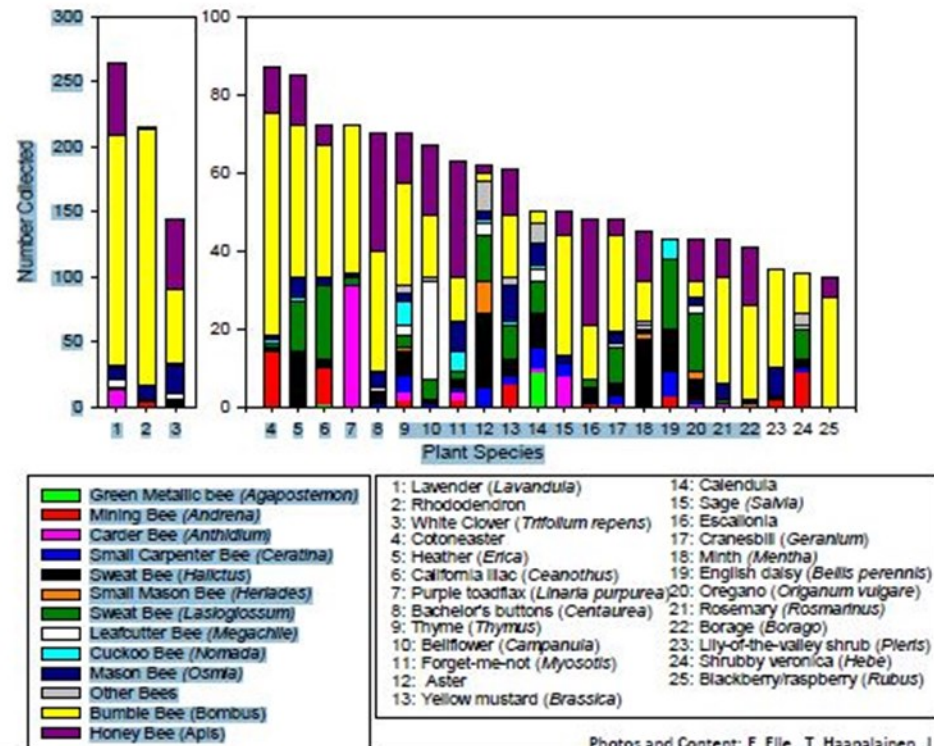




- Raising awareness of the plight of wild pollinators.
- Empowering communities to actively engage in solutions for habitat loss.
- Transforming under-utilized urban sites into aesthetically pleasing and scientifically viable pollinator pastures.

Dr. Elle Research

Our research has found that some garden plants—including food plants and lawn ‘weeds’—attract more, or more kinds, of bees than others. Consider planting these attractive plants in your garden.



Partners

- partners include Emily Carr University, City of Richmond, SFU, West Coast Seeds, UBC Okanagan, Vancity and TD Friends of the Environment.
- Others – Cambie Secondary School, Kwantlen Farm School

References

- www.borderfreebees.com
- <http://www.richmond.ca/sustainability/stewardship/ecology/bathslough.htm>
- http://www.sfu.ca/biology/faculty/elle/Bee_info.html
- <https://www.westcoastseeds.com/shop/flower-seeds/wildflower-seeds/bee-garden-blend-wildflower-seeds/>
- <https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/safety/bc-hydro-rights-of-way-guidelines-compatible-uses-development-near-power-lines.pdf>

Don't Bee Afraid to Ask
Questions!

