

The background of the cover is a photograph of a large steel truss bridge, likely the Peace Bridge in Edmonton, Canada. The bridge spans across the frame from the bottom left towards the top right. Below the bridge, there are trees with vibrant yellow and orange autumn foliage. In the foreground, there are purple mesh-like structures that appear to be part of a public art installation or festival decoration. The sky is a clear, bright blue.

# Edmonton's Report on the Environment

# 2016

## Calendar

[edmonton.ca/GreenAnnualReport](http://edmonton.ca/GreenAnnualReport)

Edmonton

# Edmonton's Report on the Environment Calendar

The City of Edmonton is committed to environmental sustainability and effective environmental management through The Way We Green, Edmonton's Environmental Strategic Plan. The Plan was approved by City Council in 2011 and outlines principles, goals, objectives, policies and approaches to preserve and sustain our environment. The Way We Green is built on two main principles:

**Sustainability:** our society's ability to endure over a prolonged period as an integral part of Earth's natural systems and

**Resilience:** the capacity of our city to withstand and bounce back from environmental disturbances.

The annual Edmonton's Report on the Environment communicates progress towards, or away from, those goals identified in our Environmental Strategic Plan. A significant aspect of environmental reporting is to make people aware of environmental data and present data in meaningful and engaging ways to reach as many people as possible. This Calendar is intended to provide a snapshot of the 7 environmental themes in our Annual Report, while at the same time showcasing some of the many extremely talented artists who call Edmonton home.

For more information, see our online dynamic report at [edmonton.ca/GreenAnnualReport](http://edmonton.ca/GreenAnnualReport).

## Energy and Climate Change



In 2014, Edmontonians used about 57,318 kWh equivalent of **energy** per person.

With the flick of a switch, the City of Edmonton is saving money and reducing environmental impacts. Over the next five years, the city intends to convert all 100,000 of its street lights to high efficiency LED bulbs, charting a greener path for citizens.



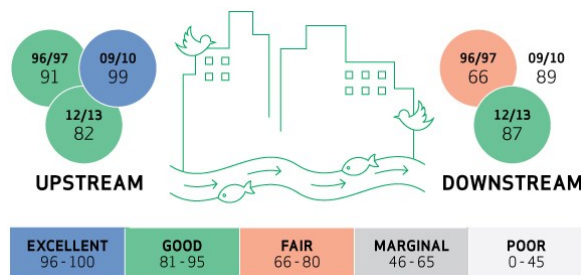
In 2014, Edmontonians produced 16.6 million tonnes of **carbon dioxide equivalent**.

A City of Edmonton sponsored study shows that Edmonton will not escape the effects of global warming. Climate change mitigation and adaptation measures need to be developed and implemented.

## Water

In 2012/2013, the River Water Quality Index showed that the **quality of water** coming into Edmonton was Good and the downstream river water quality in the North Saskatchewan was also Good.

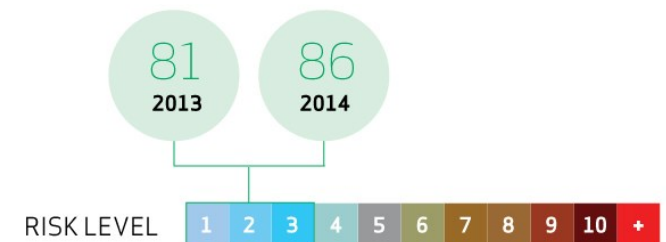
The index provides a simple snapshot of annual water quality conditions in major rivers of the province, such as the North Saskatchewan River.



## Air

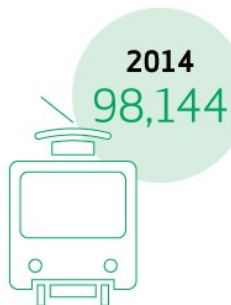
In 2014, 86% of days had an **Air Quality Health Risk** rating of Low.

The City of Edmonton is part of the Alberta Capital Airshed (ACA), one of nine airsheds in Alberta. The ACA has three main functions: air quality monitoring, managing air quality issues and air quality education.

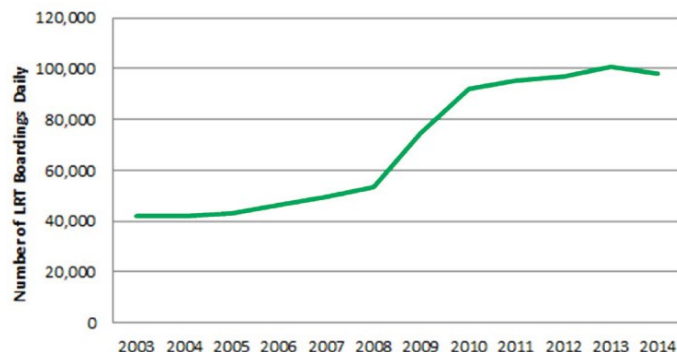




## Transportation



In 2014, there were approximately 98,144 **LRT trips** made daily. Over the past 10 years, LRT boardings have grown by 132.5%. The City of Edmonton aims to continue its expansion of the LRT network.

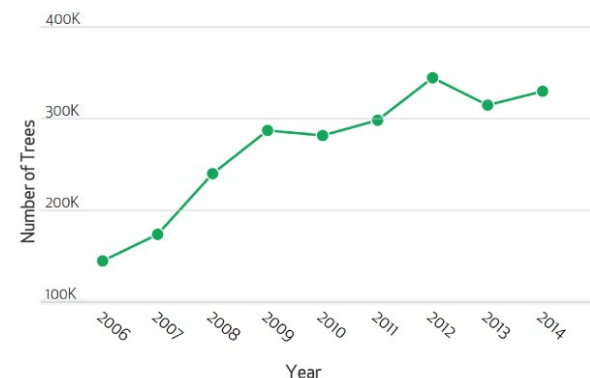


## Nature & Biodiversity



In 2014, the City maintained 330,000 **trees**.

The shining green gem in Edmonton's cap is what we affectionately call our Urban Forest. To ensure its health and longevity, the Urban Forestry team conducts a Tree Health Assessment on half of these trees each year.



## Waste



In 2014, Edmontonians produced 282 kg of **waste** per person.

Actions such as composting and grasscycling can help reduce the amount of residential waste going to the landfill and help Edmonton advance towards zero waste.

## Sustainable Living and Food

In 2014, there were **16 farmers markets** in Edmonton from local producers.

The City of Edmonton was a-buzz, pilot testing an urban beekeeping project in 2014. As a

result of the pilot project, in April 2015, the Animal Licensing and Control Bylaw was officially changed to allow urban beekeeping within the City of Edmonton.



2014  
16

## Calendar Legend

### Environmental Awareness Days

Statutory, Religious and Other Noteworthy Days

- New Moon
- Full Moon
- ◐ 1st Quarter
- ◑ 3rd Quarter

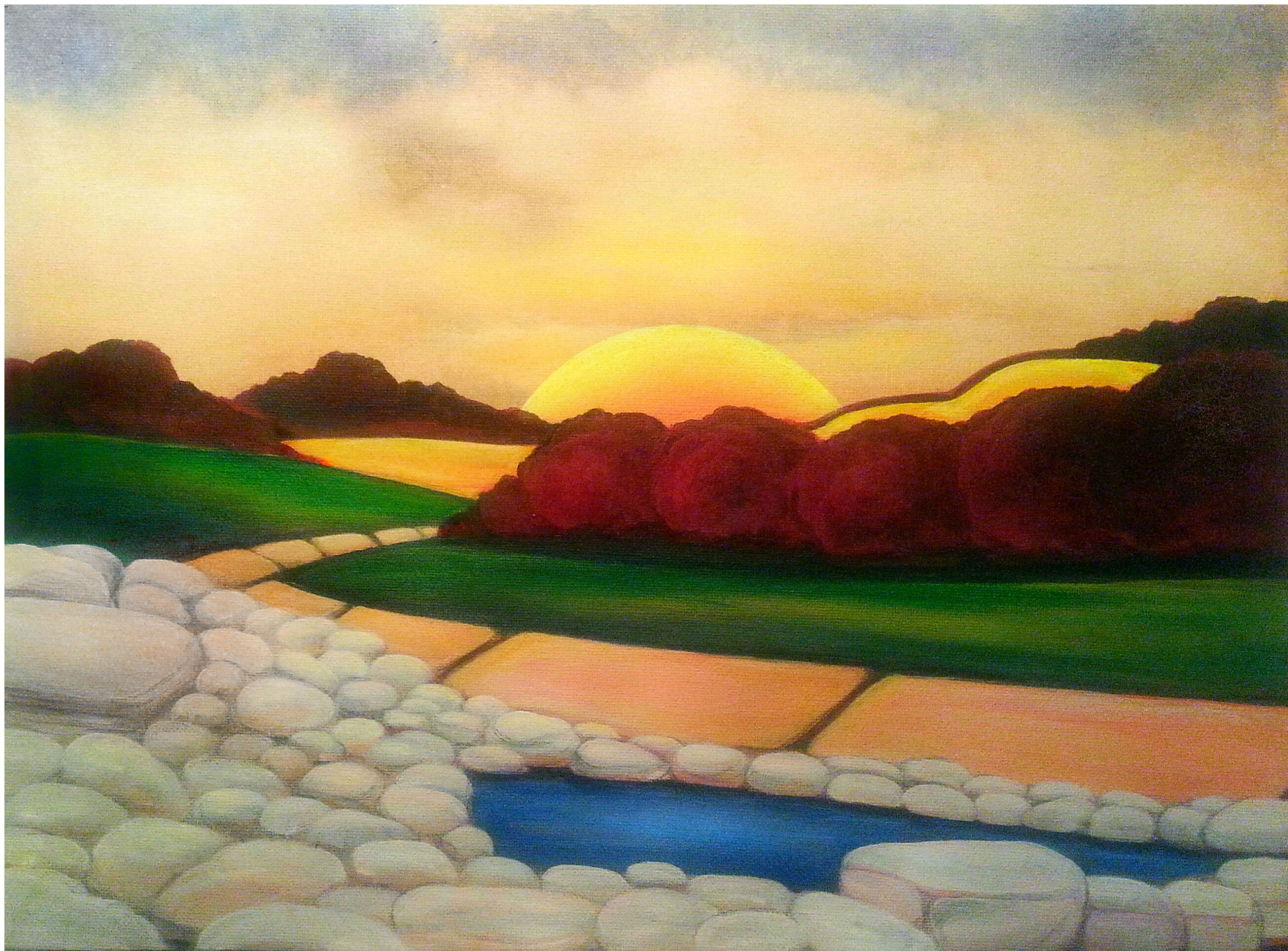
**WE'VE ALL HEARD THE CALL OF NATURE, BUT DID YOU KNOW YOU CAN EMAIL NATURE BACK?**

Edmonton.ca/GreenAnnualReport



To learn more, see the online dynamic report at [edmonton.ca/GreenAnnualReport](http://edmonton.ca/GreenAnnualReport).







# January 2016

## Solar POWER to the people

As an artist, **Ronda J. Chalifoux**, is always finding new and great inspiration in the beauty of the landscapes and the perfection of nature.

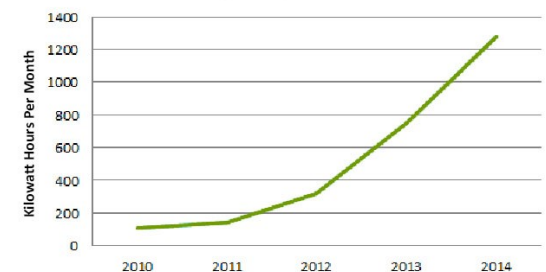
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
					☾ New Year's Day	
3	4	5	6	7	8	9
				Epiphany		●
10	11	12	13	14	15	16
						☾
17	18	19	20	21	22	23
						○
24	25	26	27	28	29	30
31						
☾						

### Did you know...?

More than 95% of Edmonton's energy comes from fossil fuels (such as coal, oil and natural gas) causing air quality, climate change and energy price risks to Edmontonians. Edmonton plans to generate more local renewable energy, such as solar energy. The number of homes and businesses installing solar energy systems is increasing as these systems become more affordable.

[edmonton.ca/RenewableEnergy](http://edmonton.ca/RenewableEnergy)

Installed Capacity Of Solar Energy







## LOVE NOTES

[illegible]



# February 2016

## Love is in the AIR

**Kim Hammond** is a visually impaired Edmonton artist. To learn more about her work, she can be contacted at [kimscott52@gmail.com](mailto:kimscott52@gmail.com).

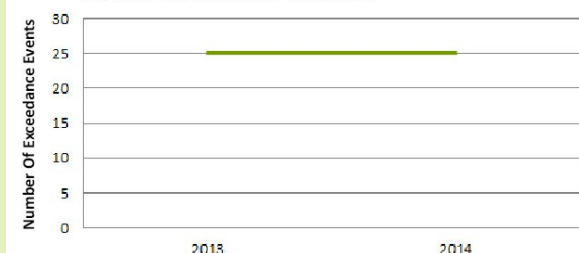
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
	Launch of WWF's We Love Cities campaign	Groundhog Day World Wetlands Day				
7	8	9	10	11	12	13
	●		Ash Wednesday			
14	15	16	17	18	19	20
Valentine's Day ●	Family Day					
21	22	23	24	25	26	27
	○					International Polar Bear Day
28	29					

### Did you know...?

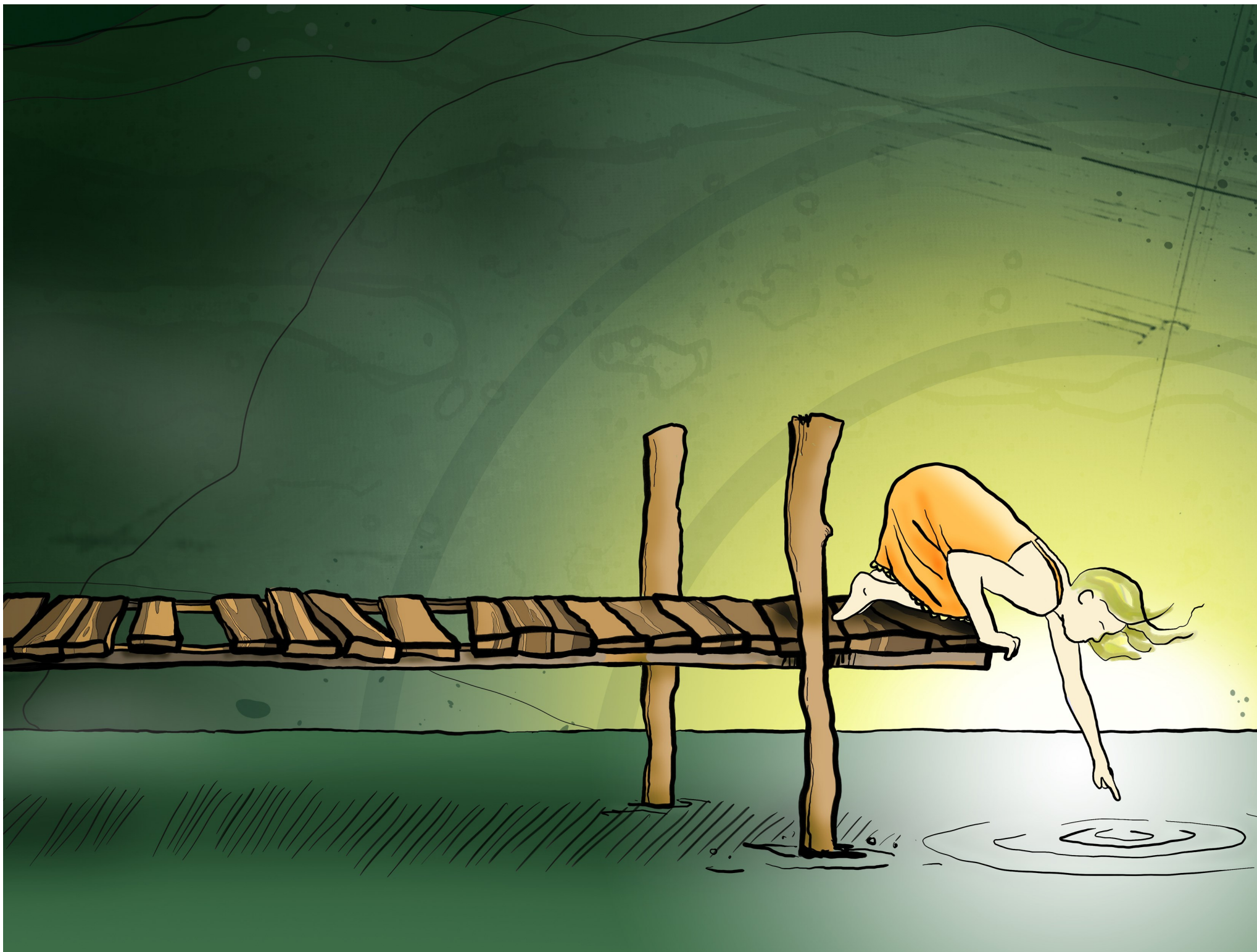
Fine particulate matter is a very small pollutant that impacts cardiac and respiratory health. On some days, Edmonton's fine particulate matter levels have exceeded air quality limits. There are many sources contributing to the problem, including vehicle emissions. There are actions we can all take to help improve our air quality such as reducing "warm-up" idling to 60 seconds before driving away, just enough time to make sure your vehicle's windows are clear.

[edmonton.ca/AirQuality](http://edmonton.ca/AirQuality)

### Exceedance Events for 24-Hour Fine Particulate Matter







# March 2016

## WATER you able to do about it?

**Jared Robinson** ([www.jaredrobinson.ca](http://www.jaredrobinson.ca), @jaredrobinsonart) began his artistic journey very early in life and has maintained a whimsical and illustrative vibe in his art throughout the years. Jared finds inspiration in anything from the ordinary to the extraordinary, which is evident in all of his works.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
		☾		World Wildlife Day		
6	7	8	9	10	11	12
		●				
13	14	15	16	17	18	19
Daylight Savings Time Starts	International Day of Action for Rivers	☾		St. Patrick's Day		Earth Hour (8:30-9:30 pm)
20	21	22	23	24	25	26
Palm Sunday Equinox	Naw-Rúz Easter Monday		World Water Day ○			Good Friday
27	28	29	30	31		
Easter Sunday				☾		

### Did you know...?

Domestic water use in Edmonton, on a per person basis, has historically been lower than the Canadian average due to a well established metering program, public education, rate setting methods and relatively short summers. However, the average person in Edmonton still used 194 litres of water per day in 2014, which could impact water availability in years of drought or with predicted climate change impacts. You can reduce your water use by actions such as installing high efficiency toilets and washing machines.

[dashboard.edmonton.ca/reports/env-2014/Water](http://dashboard.edmonton.ca/reports/env-2014/Water)

Water Used Per Person Per Day







# April 2016

## Managing the land SUSTAINABLY

**Nataša Vretenar** is inspired by nature. She paints with acrylics and mixed media, mostly large format paintings with a lot of texture. She lives and works in Edmonton.

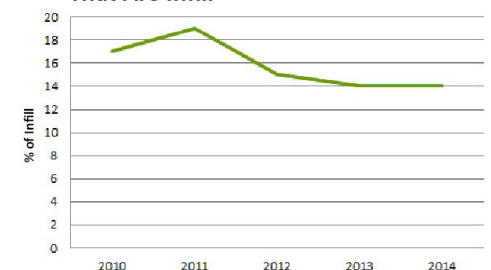
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
				●		
10	11	12	13	14	15	16
			◐		Baisakhi	
17	18	19	20	21	22	23
				○	Start of Passover Week (22-30) National Earth Day	
24	25	26	27	28	29	30
					☾	

### Did you know...?

Residential infill is the development of new housing in established neighborhoods. Infill developments can help to create higher density, can present opportunities for affordable housing and contributes to social, environmental and fiscal sustainability. In 2014, 14% of new residential developments in Edmonton were infill.

[edmonton.ca/EvolvingInfill](http://edmonton.ca/EvolvingInfill)

% of Residential Developments That Are Infill









# May 2016

## Easy as LOCAL pie

**Doris Darbasie** ([www.dorisdarbasie.ca](http://www.dorisdarbasie.ca)) is an Edmonton artist who derives most of her material from the urban setting, which presents many opportunities and also challenges that require an environmental consciousness.

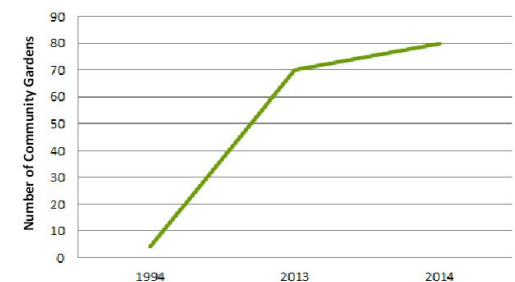
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
					●	
8	9	10	11	12	13	14
Mother's Day					◐	World Migratory Bird Day
15	16	17	18	19	20	21
Pentecost						○
22	23	24	25	26	27	28
World Biodiversity Day	Victoria Day Declaration of the Bab					
29	30	31				
◑ Ascension of Baha'u'llah						

### Did you know...?

A community garden is a growing space that a group of people have come together to nurture, develop and sustain. The key feature of a community garden in the Edmonton area is that any member of the public may join the community garden. Some community gardens in Edmonton are so popular that interested people have to put their names on a waitlist for a garden plot! Community gardens are one way to increase the sustainability and quality of life of our communities.

[edmonton.ca/FoodAndAg](http://edmonton.ca/FoodAndAg)

Number Of Community Gardens









# June 2016

## Along for the GREEN RIDE

Doris Darbasie ([www.dorisdarbasie.ca](http://www.dorisdarbasie.ca)) is an Edmonton artist who derives most of her material from the urban setting, which presents many opportunities and also challenges that require an environmental consciousness.

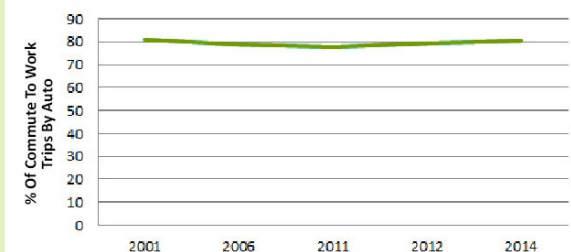
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
World Environment Day	Start of Ramadan		Clean Air Day	World Oceans Day		
Environment Week & Commuter Challenge						
12	13	14	15	16	17	18
Canadian Rivers Day			Global Wind Day		World Day to Combat Desertification & Drought	
19	20	21	22	23	24	25
Father's Day						
26	27	28	29	30		

### Did you know...?

The relatively short lifespan of roads makes them one of society's most expensive infrastructure. Moving from single passenger vehicle commuting to more efficient transportation such as transit, cycling and walking lessens the stresses on roads and can also contribute to reducing greenhouse gas emissions.

[edmonton.ca/SustainableTransportation](http://edmonton.ca/SustainableTransportation)

### Mode Of Transportation For Commute To Work









# July 2016

## Conservation is second NATURE

**Shelby Willis** ([www.shelbywillis.ca](http://www.shelbywillis.ca)) is an Edmonton-based artist. Her artwork is inspired by nature and her background in ecology. Each painting is created with the intent to inspire environmental awareness through positive and energetic renditions of wildlife that can't help but resonate with the soul.

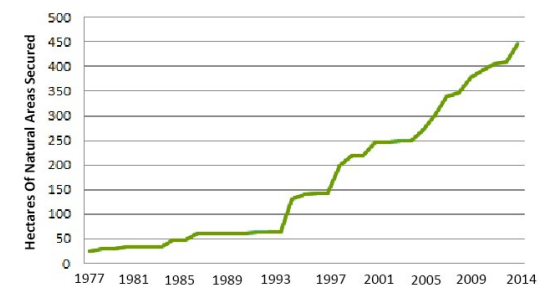
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2 Canada Day
3	4	5	6	7	8	9
10	11 National Clean Beaches Week	12	13	14 Eid al-Fitr	15	16
17	18 World Population Day	19	20	21	22	23
24	25	26	27	28	29	30
31						International Tiger Day

### Did you know...?

Natural ecosystems are important to the health of cities and all of us who live in them. At the end of 2014, 446 hectares of tableland (natural areas found outside the North Saskatchewan River and Ravine) were protected. This is approximately the same area as 833 football fields.

[edmonton.ca/NaturalAreas](http://edmonton.ca/NaturalAreas)

Hectares Of Natural Areas Secured









# August 2016

## We love our GREEN future

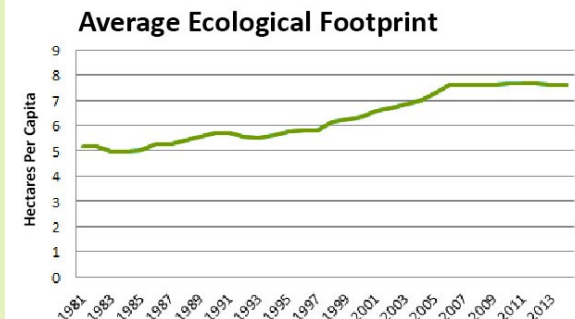
**Jared Robinson** ([www.jaredrobinson.ca](http://www.jaredrobinson.ca), @jaredrobinsonart) began his artistic journey very early in life and has maintained a whimsical and illustrative vibe in his art throughout the years. Jared finds inspiration in anything from the ordinary to the extraordinary, which is evident in all of his works.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
		Heritage Day ●				
7	8	9	10	11	12	13
			☾			
14	15	16	17	18	19	20
				○		World Honey Bee Day
21	22	23	24	25	26	27
			☾	Krishna Janmashtami		
28	29	30	31			

### Did you know...?

Sustainable living is a way of life where we are able to meet our current needs while still making sure that these resources are available/replaceable for future users. Ecological footprint shows this concept. An ecological footprint equal to or less than 1.7 global hectares per person would represent sustainable living. In 2014, Edmonton's ecological footprint was 7.62 global hectares per person - NOT sustainable living.

[edmonton.ca/GreenLivingGuide](http://edmonton.ca/GreenLivingGuide)







# September 2016

## Green HOME sweet home

**Gordon R. Johnston** ([www.allonipad.com](http://www.allonipad.com)) draws on an iPad™. He takes his iPad wherever he goes. He uses it for work and for play, and when he's inspired to capture moments or ideas, the tablet is usually charged when he is. After all, inspiration is not scheduled.

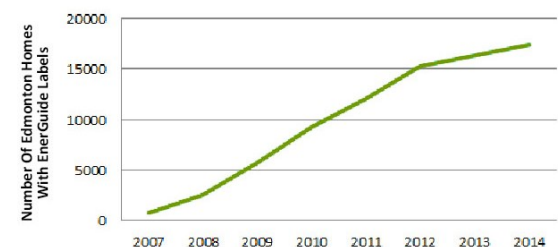
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
				●		
4	5	6	7	8	9	10
		Labour Day			☾	
11	12	13	14	15	16	17
	Start of Eid al Adha (11-14)				○ International Day for the Preservation of the Ozone Layer	
18	19	20	21	22	23	24
				Equinox International Car Free Day	☾	
25	26	27	28	29	30	
World Rivers Day					●	

### Did you know...?

Just like you can find EnerGuide ratings for your appliances, you can also find the EnerGuide rating for your house. So far, over 17,000 houses in Edmonton have a rating, meaning they had a home energy audit and now have information to help them choose which energy upgrades they would like to make to their home. Energy efficient homes save you money on your power bill and have environmental benefits as well.

[edmonton.ca/GreenHomeGuide](http://edmonton.ca/GreenHomeGuide)

**Total Number Of  
EnerGuide Labelled Homes**







# October 2016

## WASTE not, want not

**Gabrielle Lamontagne** (glamonta@ualberta.ca) is a recent graduate from the University of Alberta and enjoys drawing and painting in her spare time as a hobby.

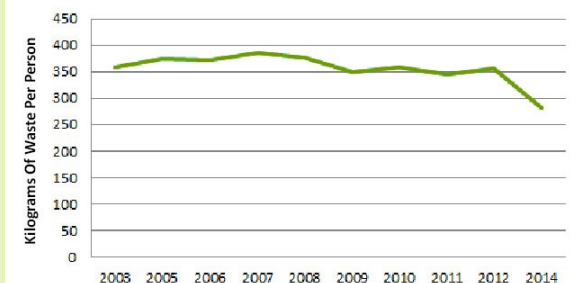
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						I Start of Navaratri (1-10)
2	3 Start of Rosh Hashanah (3 & 4)	4	5	6	7	8 ●
9	10 Thanksgiving Day	11 Dasara	12 Yom Kippur	13	14	15 ○
16	17	18	19	20	21	22 ◐
		Waste Reduction Week				
23 ●	24 International Day of Climate Action	25	26	27	28	29
30	31					
● Diwali		● Halloween				

## Did you know...?

Edmontonians all produce waste. Waste reduction practices such as reuse, recycling, backyard composting and grasscycling (leaving the clippings on your lawn when you mow), as well as safe household hazardous waste disposal, all contribute to waste reduction.

**edmonton.ca/waste**

### Waste Produced Per Person







*Whenever You Go*



# November 2016

## A CLIMATE CHANGE of pace

**William Wang** is an ETS operator. He is a Transit Artist and Poet. He has created a complete set of Transit art. He had an ETS art exhibition at City Hall in 2013. Some of the art work has been used on cultural ambassadors training material.

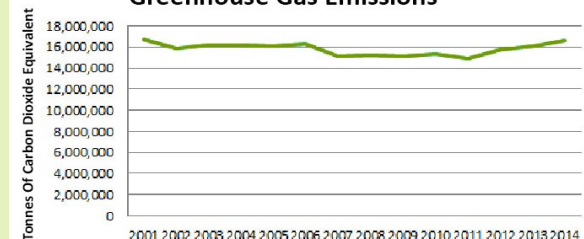
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6 Daylight Savings Time Ends Int'l Day for Preventing the Exploitation of the Environment in War and Armed Conflict	7	8	9	10	11 Remembrance Day	12
13	14 Guru Nanak Dev Sahib's Birthday	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

### Did you know...?

Greenhouse gases absorb and trap heat, leading to climate change. This impacts us through extreme weather and flooding, increased temperatures and heat waves, drought and reduced water supplies and loss of biodiversity. In 2014, about 35% of Edmonton's greenhouse gas emissions were from transportation, 20% were from residential buildings, 24% were from industry sources and 21% were from commercial buildings.

[edmonton.ca/TheWayWeGreen](http://edmonton.ca/TheWayWeGreen)

**Edmonton's Community Greenhouse Gas Emissions**









# December 2016

## GREENHOUSE GAS guzzler

**Russell Joly** (rjoly.com) wishes to bring his awareness of the surrounding area by using his techniques to influence Albertans that are keen for the challenge. He is a local artist from Strathcona County who paints in large format and often uses recycled or organic materials in his work.

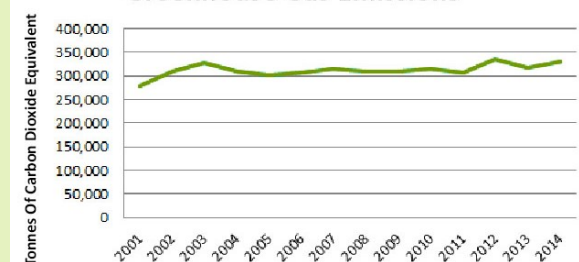
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
		World Soil Day	☾			
11	12	13	14	15	16	17
International Mountain Day		○				
18	19	20	21	22	23	24
		☾				Christmas Eve
25	26	27	28	29	30	31
Christmas Day	Boxing Day		●			New Year's Eve

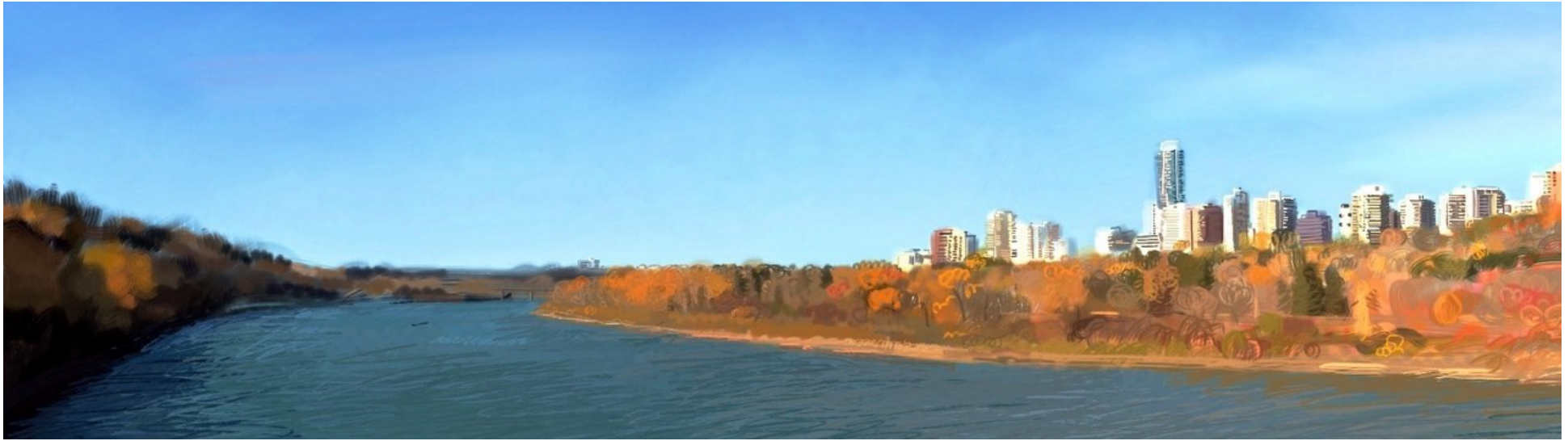
### Did you know...?

Climate change due to an increase in greenhouse gas emissions impacts Edmontonians' long-term quality of life. City of Edmonton greenhouse gas (GHG) emissions measures the amount of GHG emissions from four main City operations sources: City buildings and facilities, streetlights, landfill waste degradation and the municipal fleet.

[edmonton.ca/EnergyTransition](http://edmonton.ca/EnergyTransition)

### Edmonton's City Operations Greenhouse Gas Emissions





Front & Back Cover Artist: Gordon R. Johnston. See September for information on this artist.

# 2016

JANUARY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

FEBRUARY						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

MARCH						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APRIL						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JUNE						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

AUGUST						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SEPTEMBER						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

NOVEMBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Edmonton

edmonton.ca/GreenAnnualReport