

REMOTELY PILOTED AIRCRAFT SYSTEM (RPAS) "DRONE"



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RPAS (Drone) - Compliance

Variety of Uses

- Investigations
- Dangerous goods/hazardous material response, potential vapour release
- Aerial imagery: spills
- Proactive sweeps
- Site inspections
- Contour mapping
- 3D Mapping



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ECONOMIC BENEFITS



- **SAFETY**-Safer than walking through area: *lost time*
- **COST EFFECTIVE**
 - Contour mapping software less expensive than LIDAR
 - TIME-Saves time in the field to inspect site
- **BETTER PRODUCT**-Accurate real time “birds eye” view of area of interest

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Limitations



- Wind
- Precipitation
- Air temperature
- Visual Line of Sight
- Location – obstructions, powerlines, class of AirSpace

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BE AWARE/PREPARED



- Fly-aways
- Predatory birds
- Loss of visual line of sight
- Onlookers/curious bystanders
- Flight orientation

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Before You Fly



- Understand your legal requirements Understand the difference between basic and advanced operations
- Get the necessary knowledge requirements
- Get a drone pilot certificate
- Follow your drone manufacturer's instructions
- Survey the area where you will fly.
- Take note of any obstacles, such as buildings and power lines

<https://www.tc.gc.ca/en/services/aviation/drone-safety.html>

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New Rules – June 1, 2019

- 250g up to and including 25 kg
- Operated within visual line of site
- Basic
 - Class G: Uncontrolled airspace
 - Register, basic exam
 - 30m from bystanders
 - Never fly over bystanders



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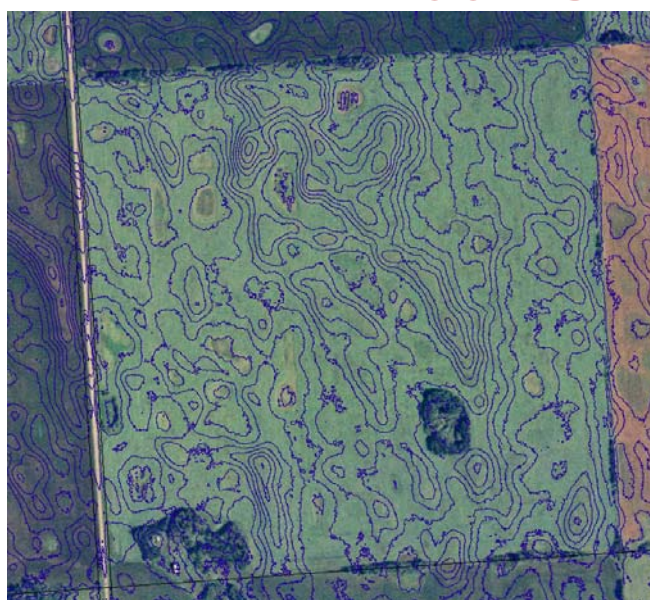
UAV (Drone) - Compliance



RPAS (Drone) - Compliance



Contour mapping



UAV (Drone) - Compliance



Alberta Environment and Parks

QUESTIONS

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