

► Four Rivers Drone Program

New technology for mapping & data collection

Available to your community Summer/Fall 2021



5 Advanced Pilots | Four Rivers is pleased to announce that this summer 5 staff members have obtained their Advanced Drone Pilot certification through Transport Canada. After intense written exams, flight practice and final flight testing, they are now fully trained and certified to do required drone work for Matawa communities, using any of the drones in the Four Rivers fleet.



5 Drones in our Fleet | The Four Rivers fleet contains 2 mini drones, and 3 larger drones. The DJI Matrice 300 RTK (quadcopter) drone, is the real workhorse of the fleet, able to fly in more difficult weather conditions, with its 4 propellers providing maximum stability, and on-board battery warmers for colder temperatures. It is capable of carrying up to three payloads, but is currently carrying the P1 camera. The WingtraOne is a speedy fixed-wing drone able to quickly cover large areas in programmed flight grids, looking a lot like a “flying orange fish”. Both of these drones are capable of precision mapping, with accuracy below 1cm. The smaller DJI Mavic 2 Pro drone is the third of the larger drones. It is also capable of mapping with its onboard camera, as well as capture video through a track & follow feature.

A drone's eye view!

Imagery Comparison

**New
Technolgooy**

Standard



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9 Matawa Communities | Four Rivers is now ready to deliver detailed mapping and aerial photography services to all of the 9 Matawa member First Nation communities. The quality images produced by our new drone fleet and certified pilots will revolutionize mapping and provide incredibly detailed geospatially-linked images for community needs. Four Rivers can provide this service upon request until approximately the end of October, or until the weather holds out, and will resume flights again in the spring.

Endless Outputs | With our versatile drones and trained pilots, Four Rivers' drone program can provide endless possibilities to Matawa communities. Baseline data can be collected and reflown at intervals to measure and track any change to the landscape, waterways, shorelines, vegetation or other infrastructure. Existing community infrastructure can be accurately documented with 3D imagery, collected and precisely mapped for the first time. Topographical mapping can provide detailed views of specific areas of concern, historic sites, traplines, animal habitat or sensitive environmental regions. Four Rivers' drones also have the capability to be upgraded in the future with other sensors including Lidar scanners or ground-penetrating radar.



3D Modeling

High Quality Imagery



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