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Manitoba Hydro
File: *MMTP-Peregrine Falcon*
Conservation Centre

Manitoba Hydro
Date: *June 11, 2018*

Reference: Field Survey Report – MMTP – Peregrine Falcon Conservation Centre

OBJECTIVE

The objective of this field survey report is to outline the results of the peregrine falcon flight recordings taken to measure peregrine falcon movements around the conservation center prior to the construction of the proposed MMTP project. Manitoba Hydro is continuing its work with a local peregrine falcon conservation centre in the Project area to further understand potential development effects on their operations.

METHODS

In 2016, Manitoba Hydro provided a Marshall GPS System radio transmitter® and a supporting Ipad device to Parkland Mews to help them understand and record movements and flight patterns of peregrine falcons bred at the conservation centre. At the discretion of the conservation centre, peregrine falcons were outfitted with the transmitting device during training flights in 2017.

This flight information was digitally recorded and has provided baseline information of peregrine falcon movements in the local region. Data collected included total distance travelled from the conservation centre, location of preferred perch sites, number of times a bird traverses or parallels the project ROW. The data was provided to Manitoba Hydro from the peregrine conservation center in early 2018.

RESULTS

Data from this survey is stored in MB Hydro LEA data management files (EPIMS).

Fifty-one peregrine falcon training flights were recorded between August 1st, 2017 and October 12th, 2017. Flight data is shown in Map 1. Map 2 shows an additional flight that occurred on September 21st, which was not recorded in the database.

The majority of flights were less than 500 meters from the conservation centre. The furthest recorded flight was 5.7 kilometers. This was the only flight that overlapped the proposed project ROW.

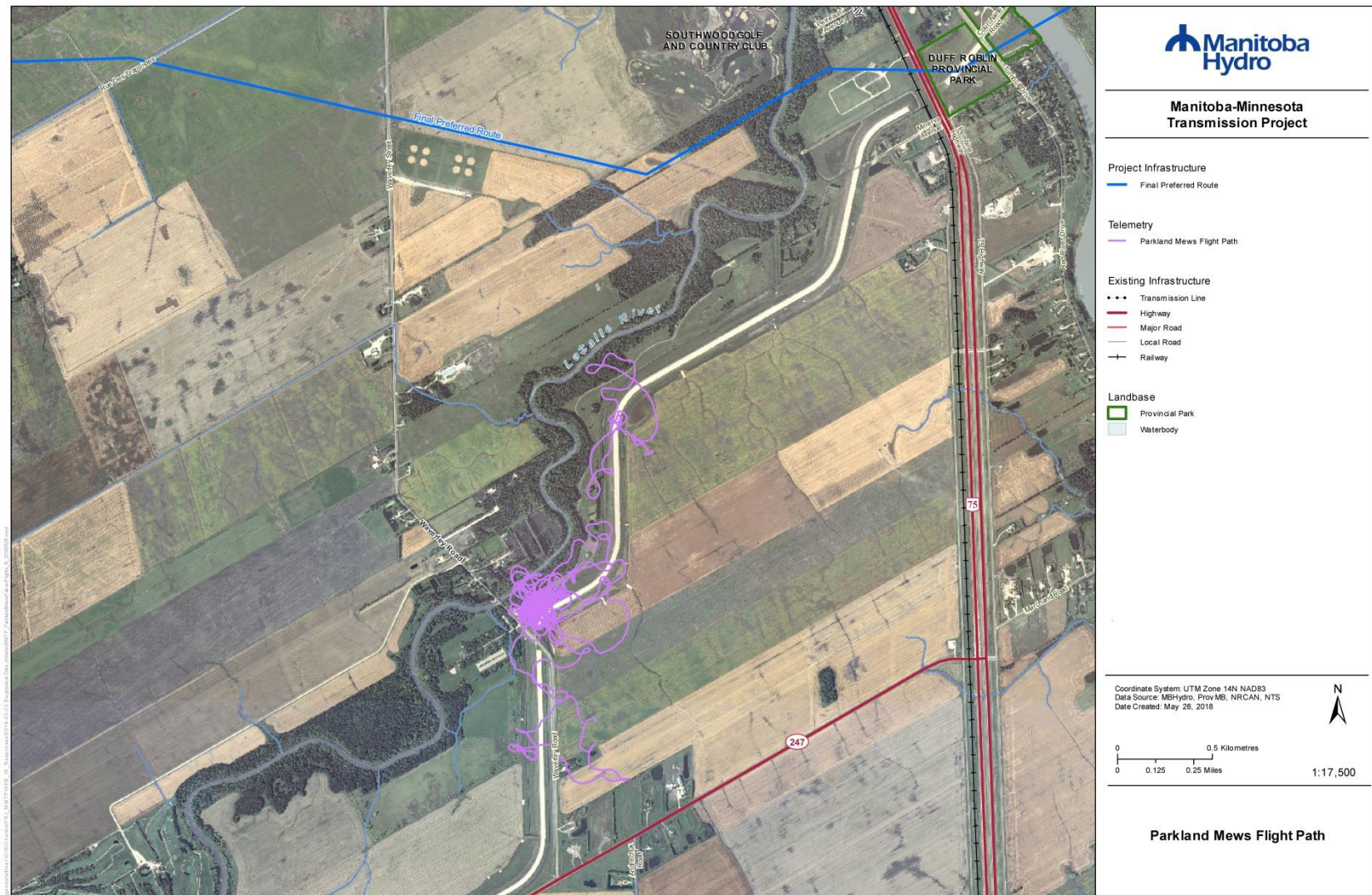
INFORMATION AND RECOMMENDATIONS

This survey provides a useful spatial overview of peregrine falcon training flights near the proposed project ROW. These results indicate that although peregrine falcon do move beyond the immediate areas around the conservation centre during training flights, most movements are within 500 meters.

To help understand flight characteristics of other individual peregrine falcons or peregrines undergoing different training regimes, it is recommended that Manitoba Hydro c analyze data collected from 2018.

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Map 1. Fifty-one peregrine falcon training flights were recorded between August 1st, 2017 and October 12th, 2017



Map 2. One additional flight that occurred on September 21st, was not recorded in the database.