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# **Technical Report for MINES Assessment Purposes: Fall 2022 Bluffpoint Property**

**Bluffpoint Lake Area, Kaiarskons Lake Area  
Kenora Mining Division,  
Northwestern Ontario, Canada**

**NTS Map Sheet 52F/03  
UTM Zone 15 (NAD83)**

Prepared For:

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**Date: February 13, 2023**





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## 1 Introduction

The following report summarizes the results from the Summer-Fall 2022 Exploration Program carried out on the Bluffpoint Property (the “**Property**”), situated in Bluffpoint Lake Area and Kaiarskons Lake Area of the Kenora Mining Division, Northwestern Ontario, approximately 400 km west of the City of Thunder Bay. This property comprises 441 contiguous unpatented claims totaling 8814.92 hectares. It is wholly-owned by Kesselrun Resources Ltd.

Michael Thompson contracted Fladgate Exploration Consulting Corporation (“**Fladgate**”) to conduct an unmanned aerial geophysical survey on the Bluffpoint property from September 19 – November 3, 2022. Fladgate provided all the required geological, geotechnical, and sub-contractor services on the program described herein. The program consisted of 126 flight lines and 75 perpendicular tie lines totaling 1215 flown line kilometers. The total number of fly days for the program was 22. The survey was performed in order to map the magnetic signature of the underlying geology.

The results of the survey indicate the presence of multiple linear northwest-southeast trending structures that are possibly related to one or more gold showings on the property. More detailed geophysical surveys as well as a detailed mapping/trenching program is recommended to enhance the boundaries and locations of these linear structures.

## 2 Terms of Reference

This report was prepared at the request of Kesselrun for the use of filing assessment as required under the Ontario Mining Act.

## 3 Disclaimer

This report is based on information from assessment reports, private reports and general geological reports and maps listed in Section 13 “References and Literature”. These reports are considered by the Authors to be non-43-101 compliant, as many were written before the implementation of NI 43-101. The Authors do not take responsibility for the information provided from such sources.

## 4 Property Description and Location

The Property is located in the Kenora Mining District in Northwestern Ontario, in the Bluffpoint Lake Area and Kaiarskons Lake Area, roughly 400 km west of the City of Thunder Bay (Figure 9). The town of Fort Frances with a population of ~8000 is approximately 120 km south of the property.



The Property consists of 441 contiguous unpatented mining claims within the Bluffpoint Lake Area (Figure 1 to Figure 8). All claims are 100% owned by Kesselrun. There are no leases or patents as part of the property. A full list of claims is presented in Table 1.

Bluffpoint lies within NTS Sheet 52F/03, and is centered at 472,400 mE and 5,447,300 mN in UTM coordinates (NAD83, Zone 15). The property boundaries were located by GPS using the corners of each of the outermost claims and have been ‘rectified’ by MNDM.

**Table 1: Bluffpoint operational mining claims**

Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	341361	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552946	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552947	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552948	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552949	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	338394	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552942	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552943	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552944	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552945	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	552950	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	552951	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	552952	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552956	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	552953	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	552954	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	552955	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	340552	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	340553	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539440	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539441	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	539442	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539443	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539444	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101777	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101778	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	552957	Single Cell Mining Claim	Active	2024-07-02	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101692	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101712	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101713	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101172	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537999	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	538000	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	538001	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	101317	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	104245	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	104346	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	110442	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	110443	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	110324	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	110811	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	107216	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	115114	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	117808	Single Cell Mining Claim	Active	2025-12-1	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	117820	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	116727	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	116728	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	116180	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.





Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	116181	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	116195	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	120170	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	120171	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	122343	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	122344	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	122370	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	122514	Boundary Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	121364	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	121011	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	124214	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	124340	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	124093	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	123691	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	123843	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	123844	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	123845	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	127622	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	127623	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	127624	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	127625	Single Cell Mining Claim	Active	2025-05-06	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	124371	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	124377	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	129494	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537936	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537937	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537938	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	537939	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537931	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537932	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537933	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537934	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537935	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	546060	Single Cell Mining Claim	Active	2024-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	130998	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	135734	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	136065	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	136095	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	136096	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	548699	Single Cell Mining Claim	Active	2024-04-17	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	141635	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547854	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	142471	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	144813	Single Cell Mining Claim	Active	2025-01-14	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	148814	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	152352	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	152367	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	151701	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	156912	Boundary Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537940	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537941	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537942	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537943	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537944	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.



Kesselrun Resources Ltd. – Bluffpoint Property

Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	537945	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537947	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537946	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	159470	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	548704	Single Cell Mining Claim	Active	2024-04-17	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	161758	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	160167	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	160168	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	161491	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	161492	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	548721	Single Cell Mining Claim	Active	2024-04-17	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	161544	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	166188	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561282	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561281	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561283	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561284	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561285	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561286	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561287	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561288	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	164552	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	168958	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	167548	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	168980	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	166980	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	168297	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	173417	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561289	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561290	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561291	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561292	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561293	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561294	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561295	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561296	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561297	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561299	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561298	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	178321	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	176820	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	176821	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	179009	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	180338	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	180339	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547844	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547845	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547846	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547847	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547848	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547849	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547850	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	547851	Single Cell Mining Claim	Active	2024-04-09	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	178078	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.



Kesselrun Resources Ltd. – Bluffpoint Property

Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	180268	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561300	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561301	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561302	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561303	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561304	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561305	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561306	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561307	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561308	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	180897	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	181771	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	181782	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	181783	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	181784	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	181236	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	180399	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561309	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561310	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561311	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561312	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561313	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561314	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561315	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561316	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	183685	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	183686	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	539313	Single Cell Mining Claim	Active	2024-01-14	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	539311	Single Cell Mining Claim	Active	2024-01-14	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	539312	Single Cell Mining Claim	Active	2024-01-14	(100) KESSELRUN RESOURCES LTD.
Kaiarskons Lake Area	539314	Single Cell Mining Claim	Active	2024-01-14	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539445	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539446	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	187282	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	186023	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	539447	Single Cell Mining Claim	Active	2024-01-18	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	187560	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	192187	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	192188	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	194218	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	194947	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196243	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196244	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196245	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196246	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196247	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196302	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196303	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196836	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196837	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	196850	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561318	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561319	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561317	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	561320	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561321	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561322	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561327	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561323	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561324	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561325	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561326	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561328	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	561329	Single Cell Mining Claim	Active	2023-10-07	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	201029	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	202982	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537948	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537949	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537950	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537951	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537952	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537953	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	202734	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	204291	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	204292	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	204870	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	204871	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	205640	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	204937	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	207871	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	207751	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	537954	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537955	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537956	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537957	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537958	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537959	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537960	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	206285	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	206286	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	210928	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	210795	Boundary Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	210796	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	212275	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	212276	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	212277	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	212278	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	214911	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	214912	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	214913	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	214914	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	213047	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	213048	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215671	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215674	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215675	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	216998	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	216574	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.





Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	217906	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215751	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215752	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215753	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215754	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215194	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	215643	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	217653	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	217654	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	217655	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537961	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	225864	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	229472	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	232877	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	229611	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537968	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537969	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537970	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537971	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537972	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537973	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537974	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537975	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	232191	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	235125	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	235702	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537962	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	537963	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537964	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537965	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537966	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537967	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537976	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	235365	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	233668	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	233695	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	233697	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	233851	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537977	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	237017	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	242181	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	242915	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	242916	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	244816	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	244817	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	248340	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	249680	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	254850	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	252679	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	252185	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	253929	Single Cell Mining Claim	Active	2025-01-14	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	255669	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	258792	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	257051	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	257052	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	256372	Boundary Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	257929	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	257930	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	262873	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	262874	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	262991	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	261564	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	264195	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	264887	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	264898	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	264899	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	267149	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	267150	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	270328	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	270329	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	270330	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	267030	Boundary Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	270928	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	269538	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537979	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537980	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537978	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537981	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537982	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537983	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537984	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	537985	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537986	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	270864	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	271678	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	271679	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	271137	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	271741	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	271742	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
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Bluffpoint Lake Area	272357	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	272358	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	272359	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	272872	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	279472	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	278737	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	280683	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	280684	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	281621	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	282964	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	282965	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	282966	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537987	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	283030	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	284949	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	284950	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	284936	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	284937	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.



Kesselrun Resources Ltd. – Bluffpoint Property

Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	284938	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	291148	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	291149	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	289278	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	291092	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	290371	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	290372	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	290373	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	287973	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	290309	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	290310	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	290311	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	291750	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	291766	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
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Bluffpoint Lake Area	289773	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	289774	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
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Bluffpoint Lake Area	291436	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	291437	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
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Bluffpoint Lake Area	296827	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	294165	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	301422	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	298912	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	304246	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	303551	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	306845	Boundary Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	313559	Boundary Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	312426	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	313401	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537994	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537995	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537996	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537997	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537988	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537989	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
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Bluffpoint Lake Area	537991	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537992	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537993	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
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Bluffpoint Lake Area	314904	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	314905	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	314906	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	314907	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	317528	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	320987	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	327503	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	325462	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	330140	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	329607	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	537998	Single Cell Mining Claim	Active	2023-12-25	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	329528	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.



Township	Tenure Number	Type	Status	Anniversary Date	(%) Holder
Bluffpoint Lake Area	330843	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	345058	Boundary Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	341970	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	342317	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	341899	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	341474	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	343363	Single Cell Mining Claim	Active	2025-02-10	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	343364	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	343380	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	343381	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	343386	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	339655	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	339656	Single Cell Mining Claim	Active	2025-12-15	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	342409	Single Cell Mining Claim	Active	2025-03-21	(100) KESSELRUN RESOURCES LTD.
Bluffpoint Lake Area	342708	Single Cell Mining Claim	Active	2025-11-23	(100) KESSELRUN RESOURCES LTD.

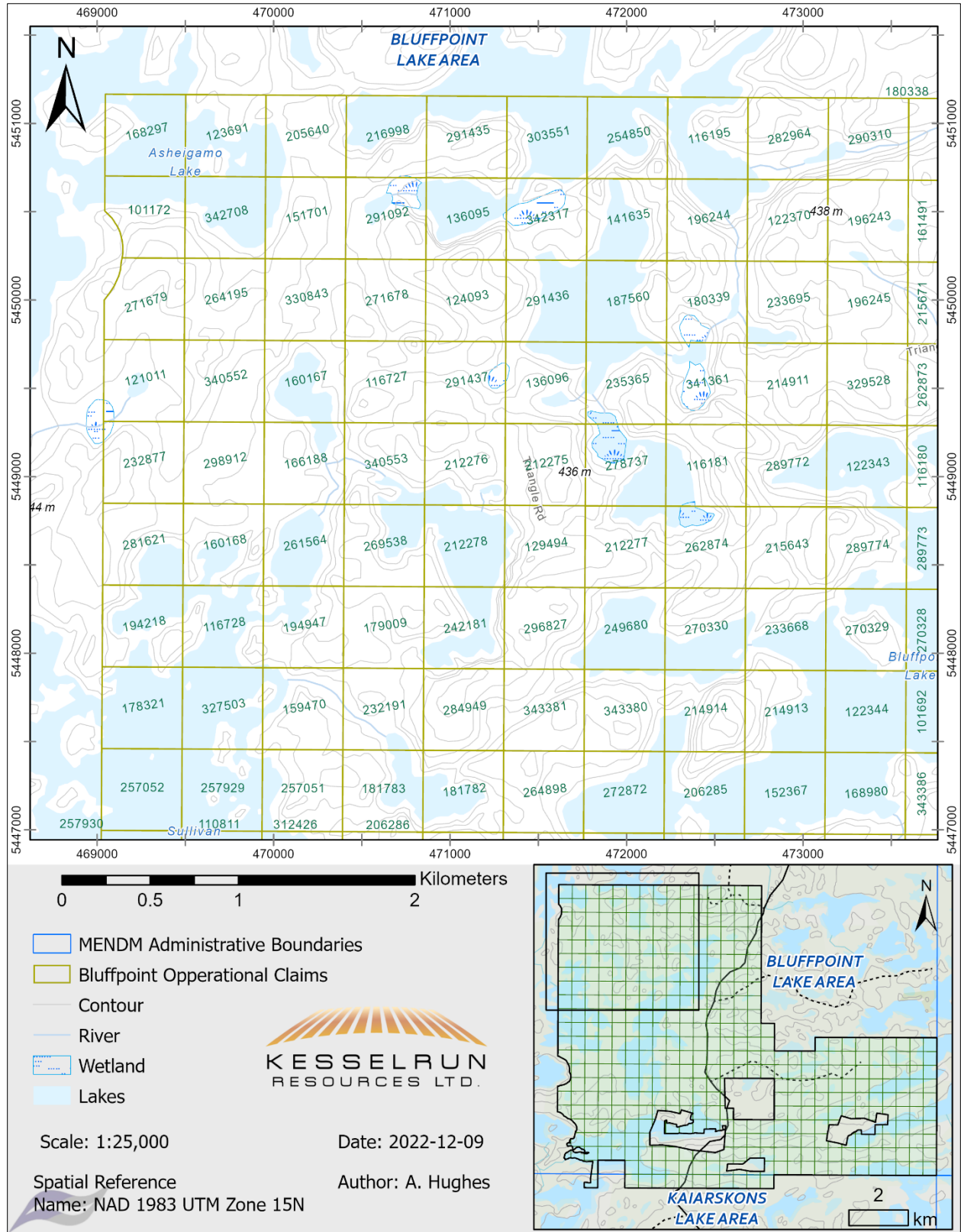


Figure 1: Active mining claims of the Bluffpoint Property. 1 of 8



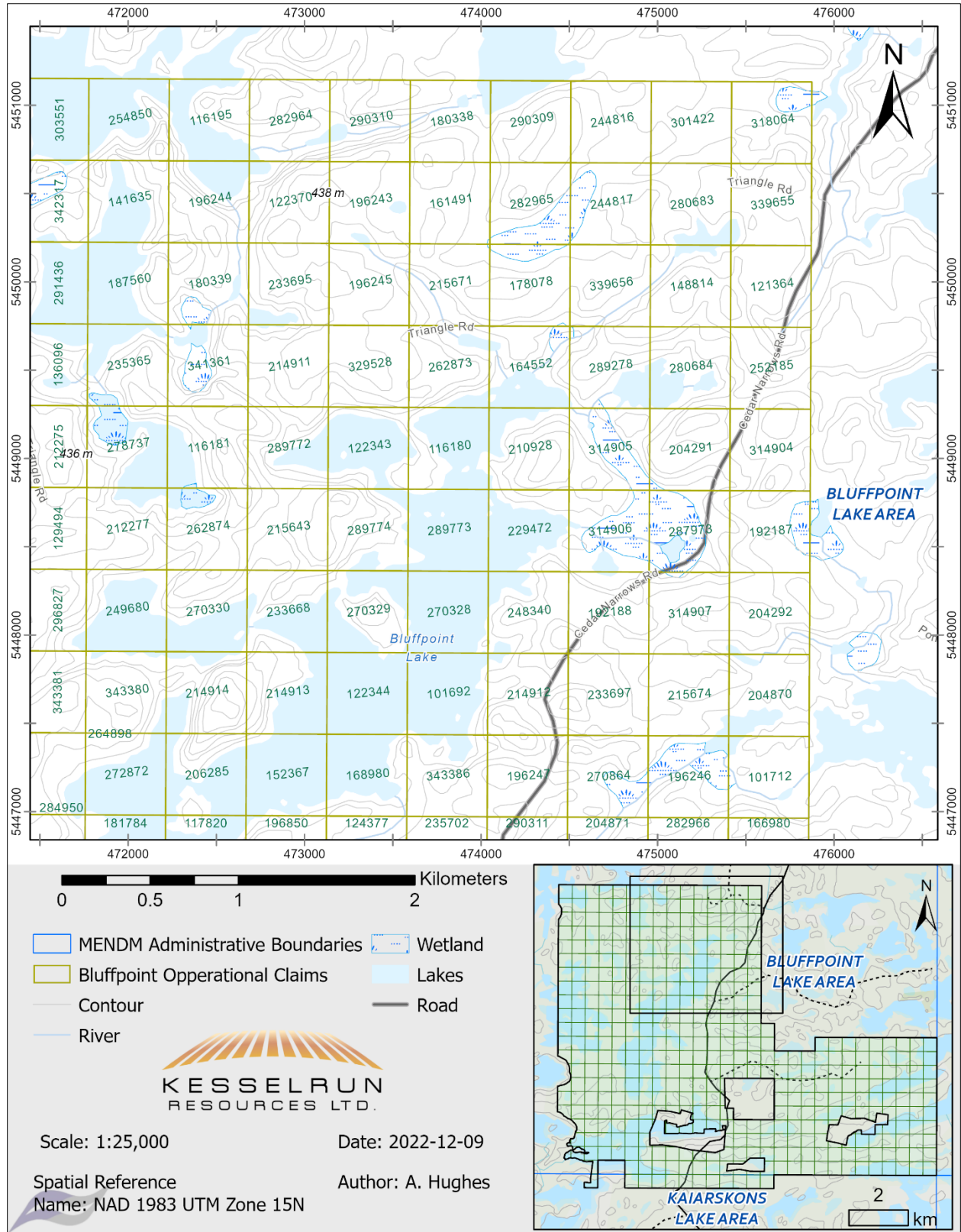


Figure 2: Active mining claims of the Bluffpoint Property. 2 of 8



Kesselrun Resources Ltd. – Bluffpoint Property

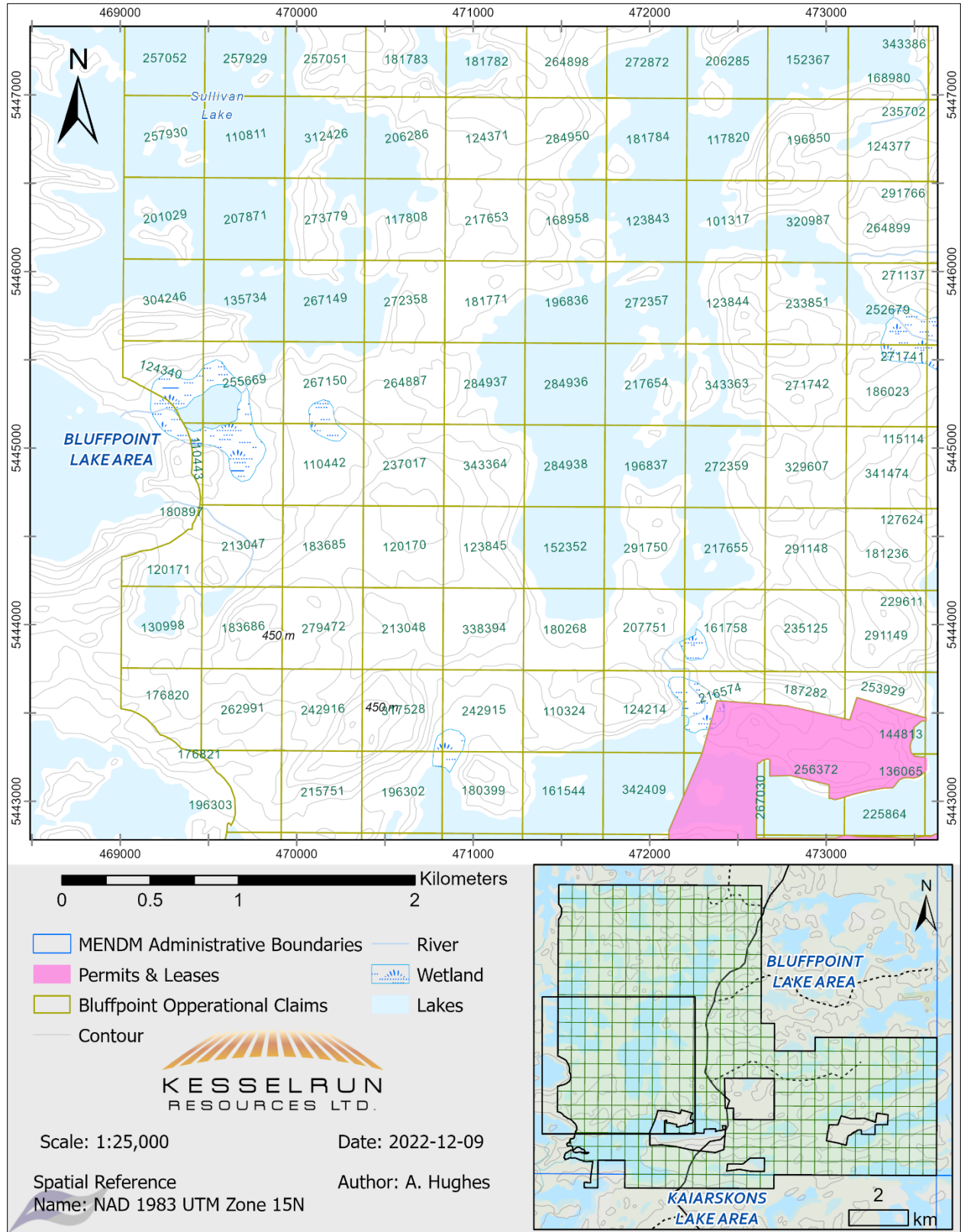


Figure 3: Active mining claims of the Bluffpoint Property. 3 of 8



Kesselrun Resources Ltd. – Bluffpoint Property

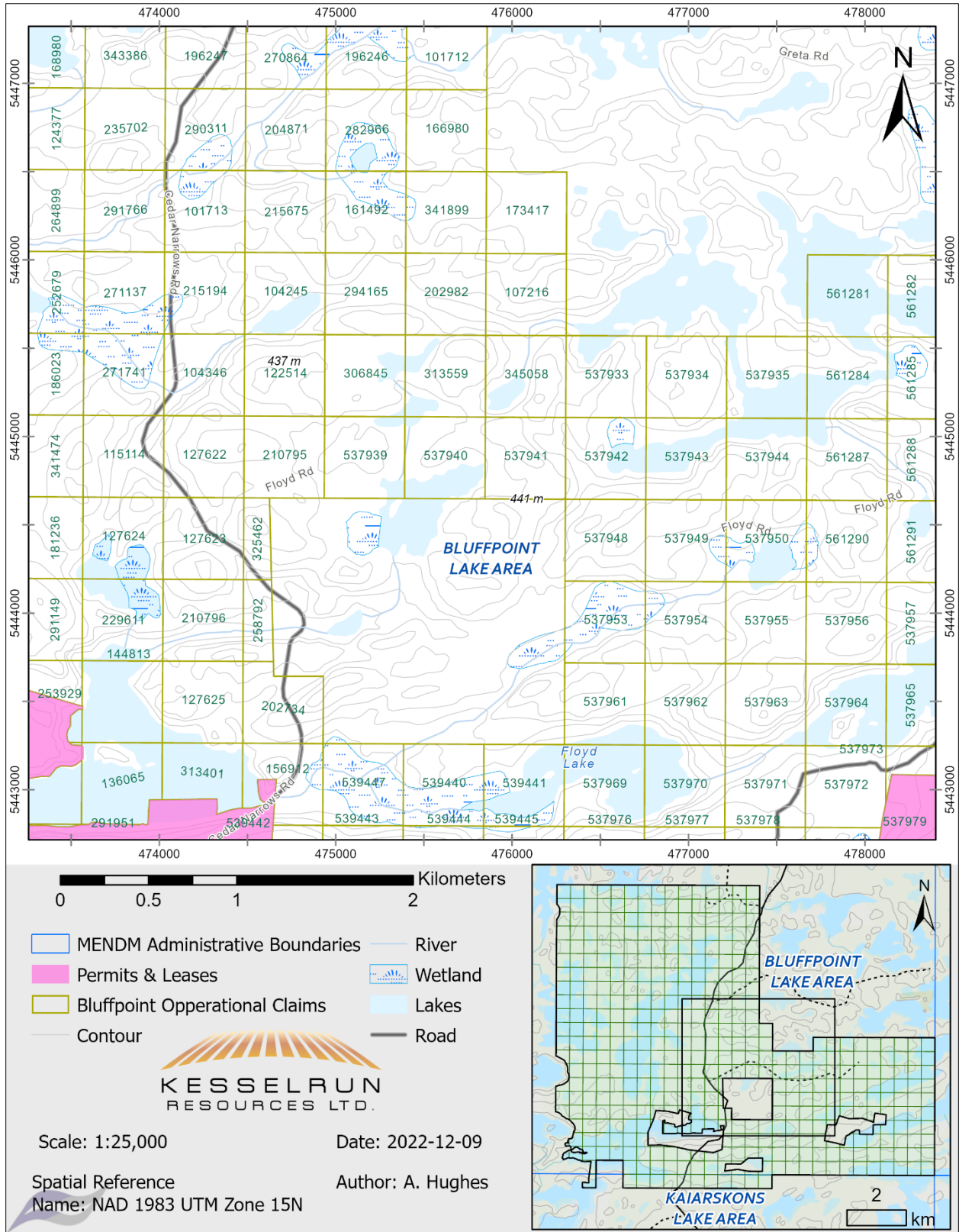


Figure 4: Active mining claims of the Bluffpoint Property. 4 of 8

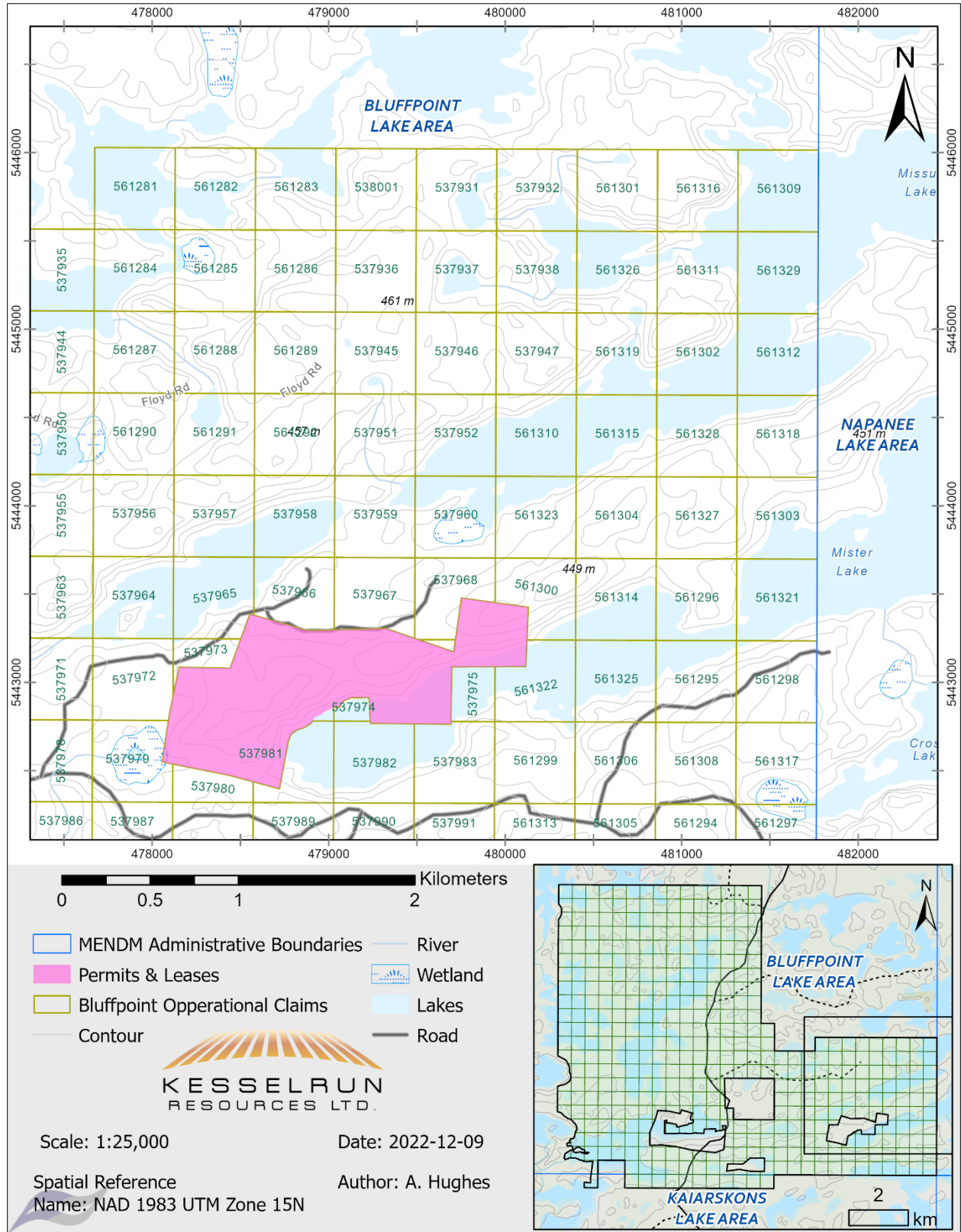


Figure 5: Active mining claims of the Bluffpoint Property. 5 of 8



Kesselrun Resources Ltd. – Bluffpoint Property

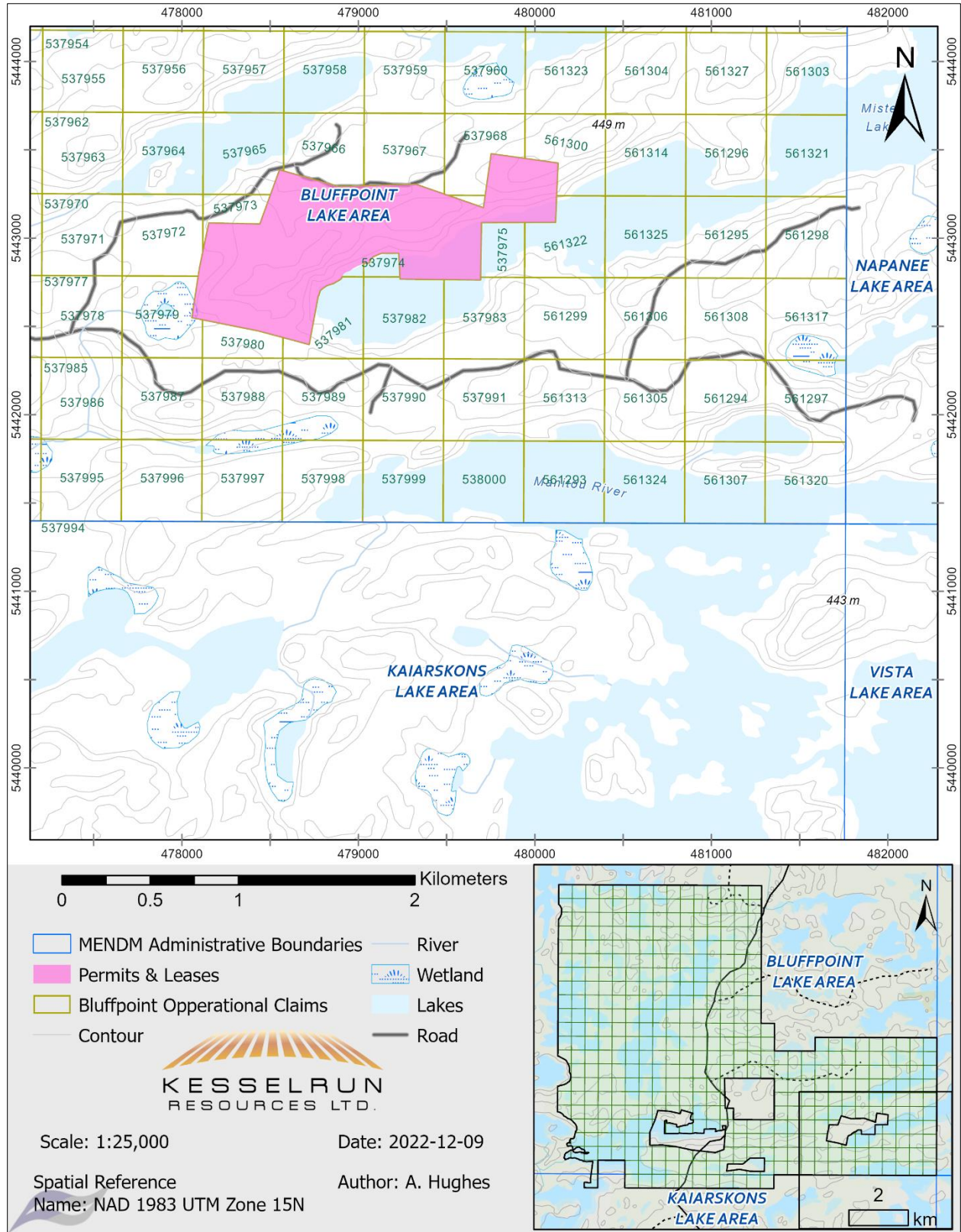


Figure 6: Active mining claims of the Bluffpoint Property. 6 of 8



Kesselrun Resources Ltd. – Bluffpoint Property

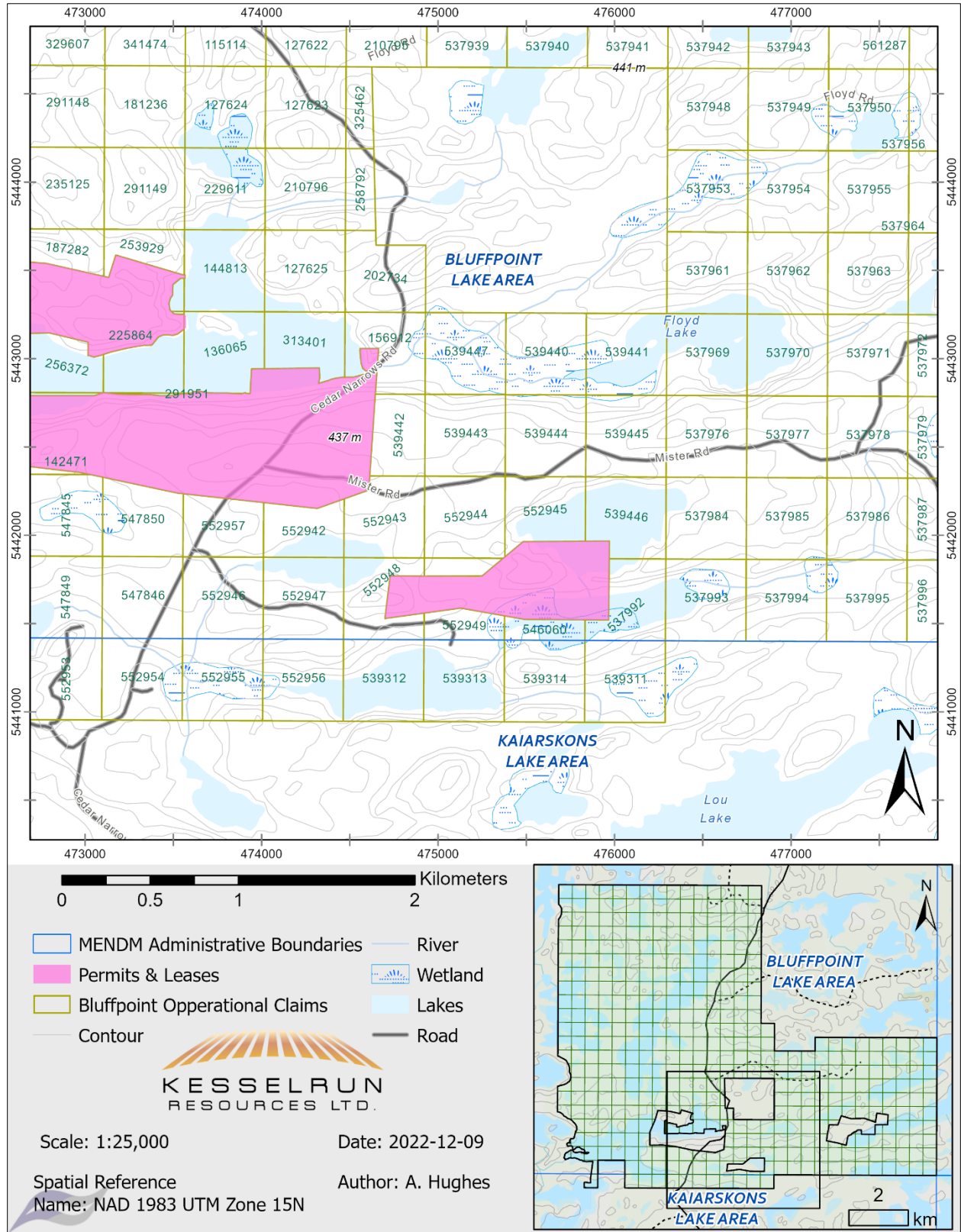


Figure 7: Active mining claims of the Bluffpoint Property. 7 of 8

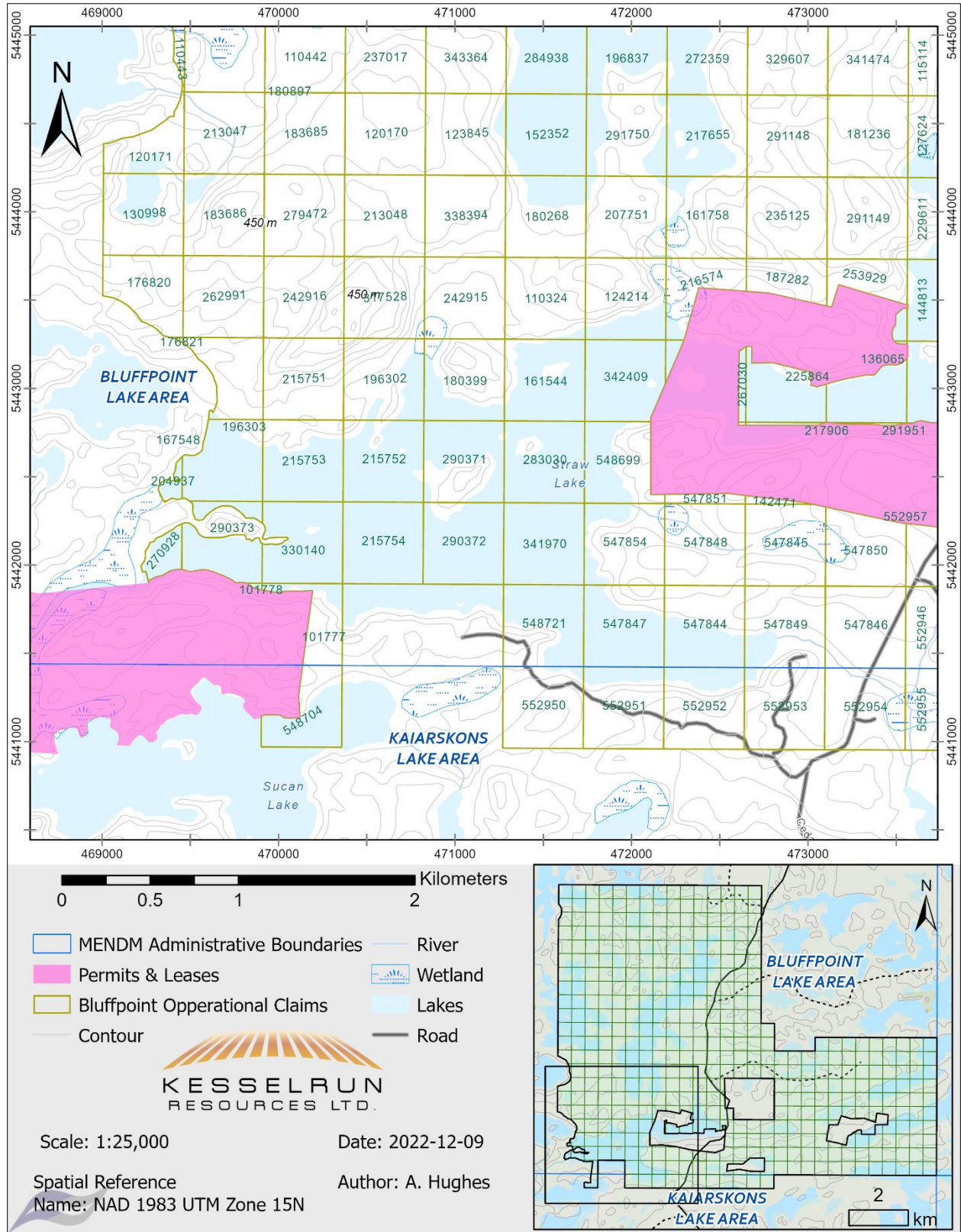


Figure 8: Active mining claims of the Bluffpoint Property. 8 of 8



## 5 Accessibility, Local Resources, and Infrastructure

The Property is roughly 400 km west of the City of Thunder Bay, Ontario (Figure 9). It is accessed by driving west along Trans-Canada Hwy 11 from Thunder Bay for ~250 km, and turning north onto Provincial Hwy 502. Both highways are paved and well-maintained throughout the year. Continue driving north along Hwy 502 for ~40 km and turn left onto a year-round well-maintained gravel logging road called the Cedar Narrows Road. The Bluffpoint Property is located 50 km down the Cedar Narrows Rd. Fairly good access to most areas within the property is provided by a number of smaller (and in some cases abandoned) tertiary logging roads. Some parts of the property are inaccessible by road due to obstruction by lakes; in these places access by boat is a viable alternative.

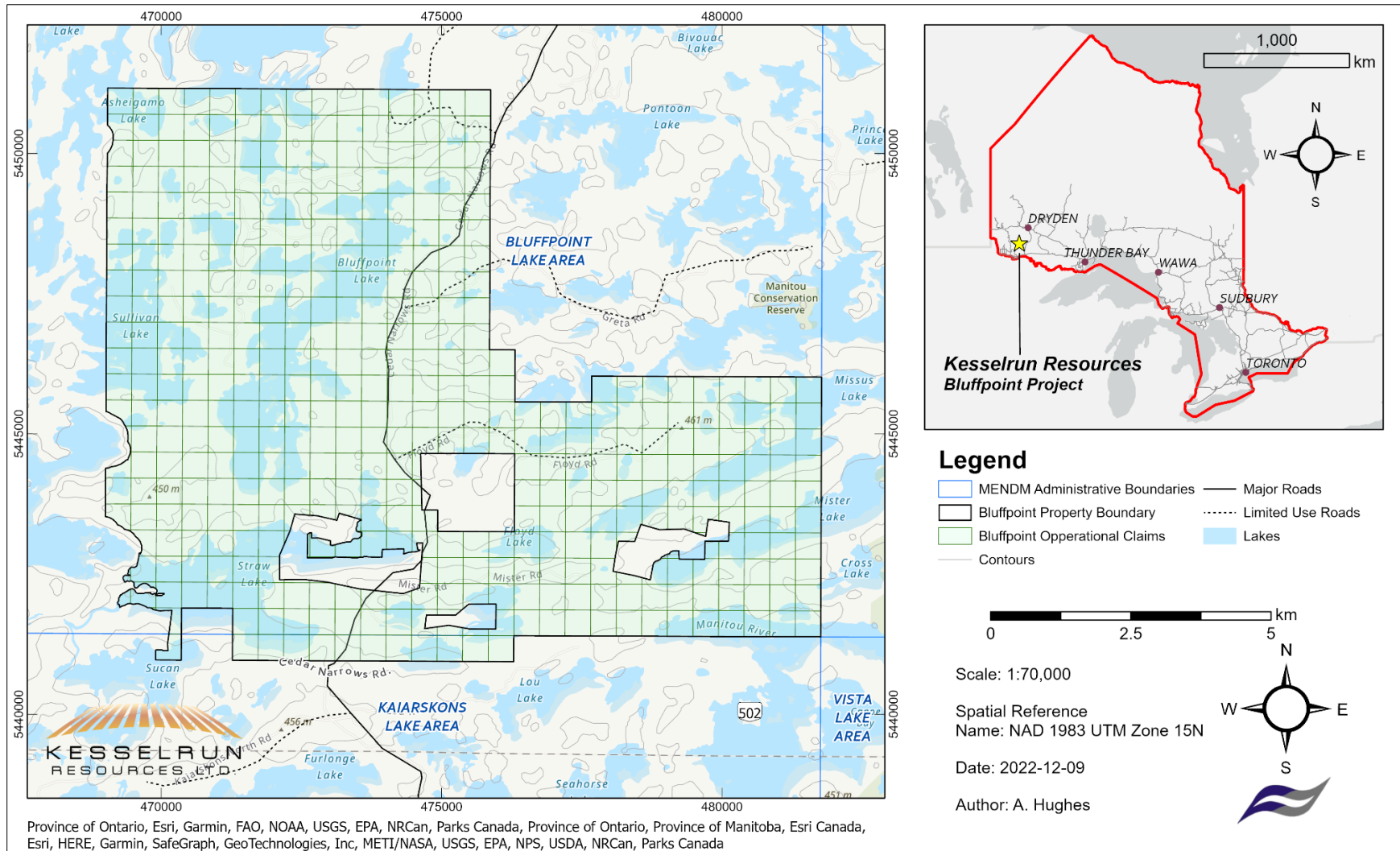
Fort Frances (population ~8000) is 120 km south of the Property, offering basic amenities to perform field exploration activities. Most supplies and services such as groceries, hardware, accommodation is available in Fort Frances. The nearest large regional centre is Winnipeg, Manitoba (population ~665,000), 280 km to the west, however Kesselrun and Fladgate operate out of Thunder Bay, Ontario, which lies 400 km to the east. Most major supplies and services are available in Thunder Bay. The Thunder Bay International Airport has daily scheduled flights to major cities in Canada such as Toronto, Calgary, Ottawa, and Winnipeg, allowing easy connections to other Canadian cities and international destinations. Local experienced labour is readily available. Thunder Bay is the main Mineral Titles center and has topographic and geological maps.

Aside from Highway 11, both the CN railway line from Thunder Bay to Fort Francis, and a major power line pass through the northern reaches of the property. The property lies 16 km north of the main trans-continental Canadian Pacific Rail Line. A major east-west trending Hydro Transmission line passes 12 km south of the claim block.





# Kesselrun Resources Ltd. – Bluffpoint Property



Province of Ontario, Esri, Garmin, FAO, NOAA, USGS, EPA, NRCAN, Parks Canada, Province of Ontario, Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, NRCAN, Parks Canada

**Figure 9:** Location of the Bluffpoint Property within the Province of Ontario, Canada



## 6 Climate and Physiography

The Bluffpoint Property is located within the Canadian Shield, which is a major physiographic division of Canada. The property is situated in an area of swamps, small lakes, and low rolling hills, with scattered areas of outcrop. Beaver ponds and cedar swamps border its base and cover much of the balance of the property.

Climate in the area is typical of Northern Ontario, with cold winters and warm summers. Average January minimum temperatures range from -18°C to -32°C, and average July temperatures are between 24°C and 32°C (www.meteoblue.com). Work can be done (subject to snow and freezing) for most of the year. Certain mapping and mechanized stripping activities and soil sampling are done only without snow cover, whereas drilling can occur at any time of the year.

The annual average precipitation for the Fort Frances area is 720 mm including 580 mm of rainfall and 139 mm of snowfall. June sees an average rainfall of 113 mm, while November receives the highest monthly average of 33 cm of snow. The area is classified as a 'hemi-boreal' climate according to the Köppen climate classification.

Elevation ranges from 1100 ft (270 m) to 1500 ft (450 m). The claims are covered with a thick secondary growth of birch, balsam fir, black spruce, cedar and some jack pine and poplar. The underbrush can be very dense with intergrowths of maple, alder, and hazel.

Water for drilling is readily available from small lakes located within the claim block and from two major creeks. Water is also available on the southwestern portion of the property from Bluffpoint Lake year-round, and also from the small intermittent creeks during high run-off periods.

Rock exposures are abundant in the northern portion of the claims where the claim block straddles a prominent ridge in the area. Outcrops in this area are typically found as moss-covered knolls or forming occasional cliffs. Total rock exposure and areas with thin overburden cover comprise only ~10% of the property.

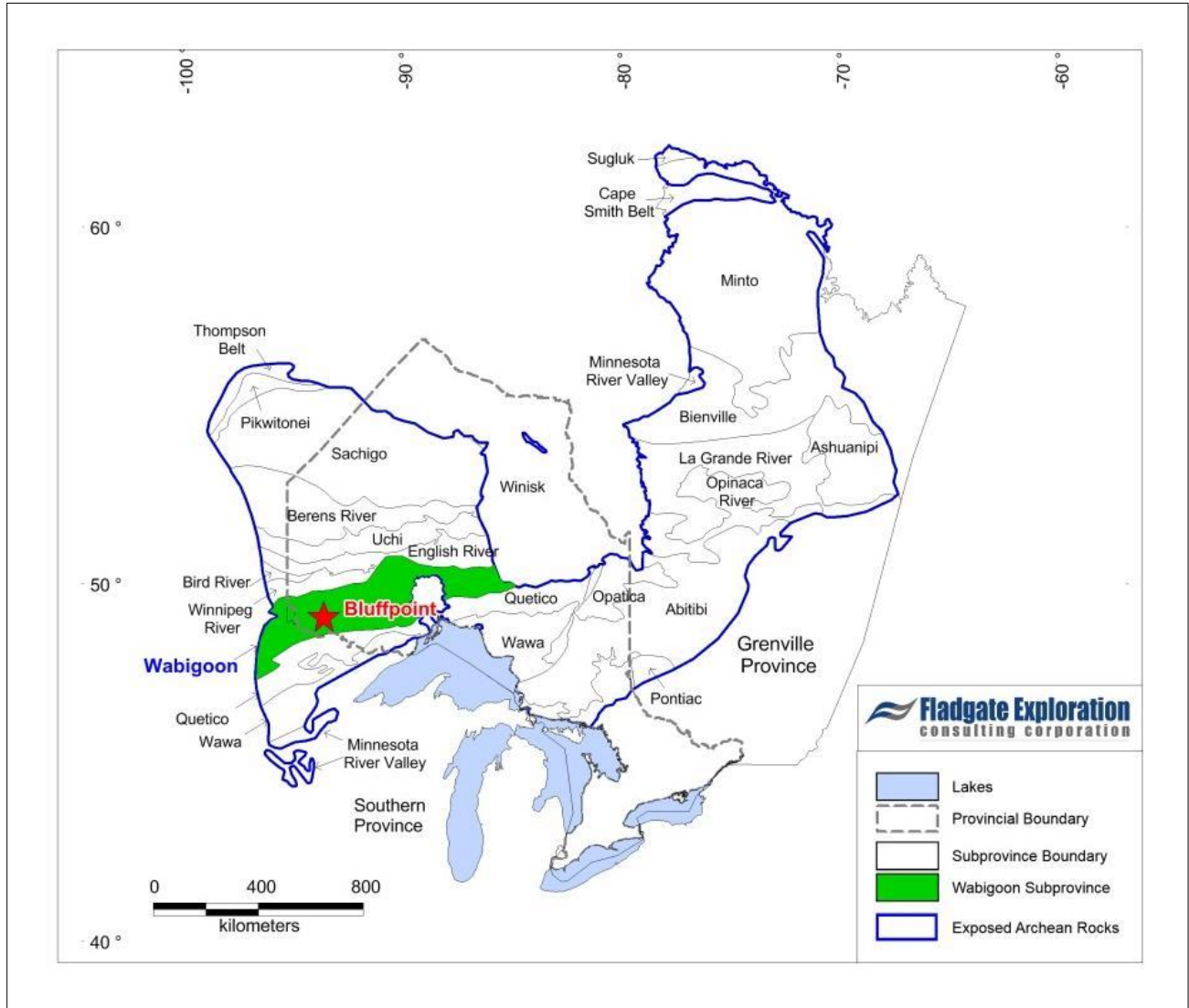
## 7 Geological Setting

### 7.1 Regional Geology

The Property is located within the volcano-plutonic Wabigoon Subprovince, part of the Superior Province of the Canadian Shield (Figure 10). All rocks in the Bluffpoint Property area are Archean in age. The claims are situated on the southern margin of the Savant Lake – Crow Lake metavolcanic-metasedimentary belt, a large (approximately 6,600 km<sup>2</sup>) irregularly shaped greenstone assemblage in the west-central part of the Wabigoon Subprovince (Figure 11). The greenstone in the claims area is composed mainly of interlayered steeply-dipping to sub-vertical mafic, intermediate and felsic metavolcanics, with intercalated metasediments. The greenstone assemblage has been intruded by large plutonic bodies; in



the claims area, the two major plutonic bodies are the Lawrence Lake Batholith to the north, and the Jackfish Lake Complex to the south. The two batholiths are entirely surrounded by greenstone belt rocks and, in between them, is the vertically-dipping crustal-scale Pipestone-Cameron-Manitou Deformation Zone (“PCMDZ”), which divides the greenstone belt into two structurally distinct regions.



**Figure 10:** Superior Province and sub-provinces within the Canadian Shield.

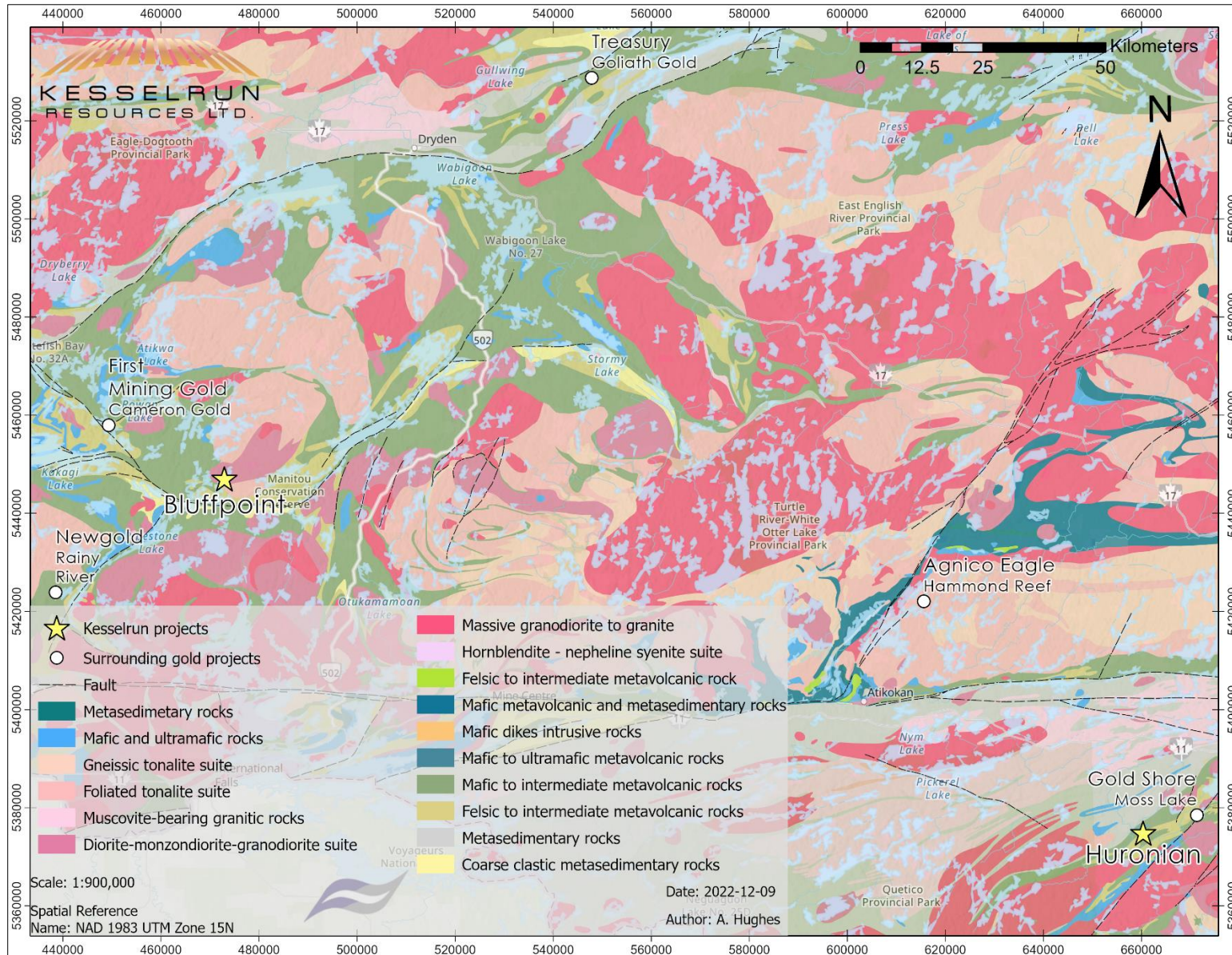


Figure 11: Regional geology of the Wabigoon Subprovince. (Ontario Geological Survey, 2011)



## 7.2 Property Geology

The Bluffpoint property covers a substantial portion of the Lawrence Lake Batholith and a segment of the greenstone assemblage both to the west and southwest of the batholith (Figure 12). The principal characteristics of the lithological units encountered on the Bluffpoint property are summarized below.

### 7.2.1 Lawrence Lake Batholith

The Lawrence Lake Batholith is a composite intrusive unit occupying ~371 km<sup>2</sup>. Four distinct roughly concentric phases have been recognized in the Lawrence Lake Batholith (Davis & Edwards, 1990). The oldest phases are a contact zone trondhjemite-granodiorite (“**CZT**”) which occupies the southern margin of the batholith, and the syngenetic Bluffpoint quartz diorite (“**BQD**”). The quartz diorite is intruded to the north by the Lawrence Lake trondhjemite, a fairly massive uniform unit, and the Chuck Lake pluton (a small granodiorite stock) intrudes at the contact between these units. Additionally, the batholith is overlain by (and appears to grade into) an intermediate-felsic volcanic pile in the south. Age estimates vary from 2733±1 Ma for the oldest units to 2715 Ma for the youngest units. Mineralization discovered to date has been confined to the CZT, specifically to zones within 1.6 km of the batholith contacts; these marginal rocks are more foliated, with a greater tendency towards faulting and intense fracturing. Some areas within this margin also show significant alteration (pyritization, sericitization, hematitization and quartz veining) which is generally associated with faults.

### 7.2.2 Metavolcanics

Metavolcanics within the property consist of interlayered, semi-continuous and interfingering zones of mafic, felsic and intermediate volcanics; these layers may also interlayer with metasediments. A variety of textures have been observed, including massive and foliated mafic tuffs, mafic lapilli tuffs, pillowed and amygdaloidal mafic flows, intermediate tuff, crystal tuff and lapilli tuff, and felsic tuff and crystal tuff. Some units contain significant magnetite. Mafic and intermediate volcanics tend to have gradational contacts, and differentiation between the two is frequently subjective. In zones of strong deformation, all primary structures may be completely obliterated, and highly sheared felsic volcanics have been altered to sericite schist. The metavolcanics to the south of the property are fairly well characterized as a result of mapping by the Ontario Geological Survey (Armstrong & Anastas, 1993) and by various other operators (e.g. Sparton Resources in 1983); however, those to the west of the Lawrence Lake Batholith are less well characterized, having been subjected to little or no exploration activity.

### 7.2.3 Mafic to Ultramafic Intrusive Rocks

A late swarm of north-trending lamprophyre dykes cuts various lithologies on the property, and is comprised mainly of hornblende and biotite. While these lamprophyre dykes are later than most other lithologies, they are cut by late granitic dykes in the vicinity of Mirror Bay. To the west, gabbroic dykes of



variable widths (up to ~10 m) also occur, intruding most lithologies in the area. Both units are largely restricted to the area south of the PCMDZ.

#### **7.2.4 Structure**

The Property area is truncated on its southernmost margin by the PCMDZ. This deformation zone is a wide composite system of discrete brittle faults and anastomosing brittle-ductile shear zones comprising the Pipestone-Cameron Deformation Zone, the Pipestone-Cameron Fault, the Manitou Straits Fault and the Manitou Stretch-Pipestone Lake Fault. In addition to these main structures, a number of parallel to sub-parallel splays (shear zones and faults) have been traced in close proximity to the PCMDZ. A well-defined foliation affects most volcano-sedimentary rocks in the south part of the Bluffpoint property, and is believed to be related to the PCMDZ. Towards the east end of the property, there is a significant (about 60°) inflection in the PCMDZ; this contributes to the structural complexity of the property, particularly to the south.

In the Bluffpoint Lake Area, the PCMDZ separates two very different structural regimes. To the north of the deformation zone, the structural regime is relatively simple and dominated by the Lawrence Lake Batholith, with supra-crustal rocks wrapping around the batholith and margin, and sub-parallel faults developed in both the batholith and adjoining lithologies. This regime appears to be modified towards the south where foliation is overprinted by the PCMDZ. Another direction of faulting has been identified extending out from the batholith and is interpreted as possibly related to continued uplift within the core of the batholith (Smith, 1993). Structural mapping during historic exploration of the northern part of the property (by Homestake Canada, proximal to the Bluffpoint Lake) has identified at least three distinct fracture directions, at approximately 45°, 100° and 340° (MacPherson, 1992), which may correspond to these three fault directions. Lineations within the batholith traced from aerial photography confirm at least 3 directions of structure in most areas, with the structures warping towards the margin of the batholith. There is, however, some controversy as to which of these lineations represent faults and which are fractures associated with the cooling batholith (Edwards, 1983).

To the south of the deformation zone the structural regime is significantly more complex. In total, three separate folding events have been distinguished (Smith, 1993).  $F_1$  is a subtle folding event consisting of a broad isoclinal synclinorium with a north-trending axis centred on Vista Lake and causing all rocks to the west to dip eastwards; no penetrative foliation or cleavage has been observed in the  $F_1$  and no other associated structures have been discovered on the property.  $F_1$  is thought to be possibly synvolcanic.  $F_2$  consists of steeply-plunging folds with east-trending axes and a well-developed axial-planar foliation; associated lineations also dip steeply.  $F_2$  affects the oldest units on the property (both metavolcanics and some metasediments) but the latest sediments (in particular the Esos Lake sedimentary package) and the intrusive rocks are unaffected.  $F_2$  is modified in some places by  $F_3$ , which forms large-scale steeply-plunging folds with north-trending fold axes; these are believed to be related to deformation on the PCMDZ. A number of distinct fold structures have been identified related to competency contrasts and fold interference; and both  $F_2$  and  $F_3$  have been observed to form parasitic 'S' and 'Z' folds.



### 7.3 Mineralization and Alteration

Several mineralized zones have been encountered on the Bluffpoint Property of which the most important are the Homestake, Sande and Fingas Showings; all three are located to the west of Bluffpoint Lake (Figure 12).

#### 7.3.1 Homestake Showing

The Homestake Showing is a zone of heavily jointed and strongly altered trondhjemite/granodiorite located approximately 60 m from the west shore of the central portion of Bluffpoint Lake. The showing is hosted within the contact zone of the Lawrence Lake Batholith (about 550 m from the batholith-metavolcanic contact).

According to a report for Homestake Canada Ltd. (MacPherson, 1992), the Homestake Showing zone is an area approximately 50 m wide x 350 m in length; the zone is slightly arcuate with a strike of approximately 340°. Despite this estimate, the edges of the zone are not particularly well defined. A number of factors complicate definition of zone extents, including poor bedrock exposure (particularly to the north of the showing), nuggety sampling results (Clark, 1991), widespread alteration throughout the area peripheral to the Island Showing, and a poor understanding of the structural controls on the deposit. For instance, to the north the showing exhibits strong alteration and grade until it encounters an area with little outcrop, where it is interpreted as abruptly terminating; the reasons for this termination, as well as its exact position, remain uncertain. Further uncertainty is provided by the close proximity of Bluffpoint Lake; relatively high grade grab samples (up to 1.2 g/t) have been taken along the shore directly to the east of the interpreted zone, and at its closest, the zone is only 20 m from the edge of the lake, leaving open the possibility of a zone extension (or parallel zone) beneath the lake.

Alteration within the showing consists of silica flooding, stockworks and veins, as well as saussurite, sericite, pyrite, carbonate, Fe-carbonate and hematite alteration. Alteration is concentrated around joints, with alteration intensity increasing with joint density. Average gold grades range from 0.005 – 6.6 g/t, with grab samples going up to 28.1 g/t; MacPherson (1992) gave a bulk grade for the mineralized zone as 0.509 g/t based on 160 linear meters of sampling. Gold grade is positively correlated with pyrite content, which is in turn correlated with fracture density and intensity of alteration; the most intense alteration (and highest Au grades) are found in areas where fractures of different orientations intersect.

Drilling on the showing by Kesselrun in 2012-2013 encountered anomalous gold mineralization over a strike length of >350 m, with assays up to 9.28 g/t Au over 0.7 m, but failed to establish a coherent mineralized body. The Homestake Showing was identified as an important remaining target, with intense alteration, a large footprint and widespread low- to moderate-grade Au assays. The controls on mineralization and grade distribution within the Homestake Showing need to be better defined.



### ***7.3.2 Sande Showing***

The Sande Showing consists of a series of shallowly-dipping pyritic quartz stringers hosted within the trondhjemite but is proximal to a fine-grained felsic dyke within the batholith. Mineralization is mostly restricted to the veins, with only minor pyritic wallrock alteration. Grades are variable up to 11 g/t with an average for the showing of 0.923 g/t. The footprint of this showing is quite small and was therefore deemed a lower priority target.

### ***7.3.3 Fingas Showing***

The Fingas Showing was an original discovery made by Kesselrun Resources in 2011 (Escarrage & Sheridan, 2011) as a result of prospecting work on the westernmost part of the Bluffpoint Property. The Fingas Showing is hosted within the Contact Zone Trondhjemite and consists of a 15-cm wide grainy dark grey quartz vein hosted in a 2 m wide shear zone striking 280°/88°. While the structure is fairly narrow, it shows strong deformation and can be described as mylonitized. Alteration within the shear is strong hematite-sericite-quartz-chlorite; despite the absence of sulfides on surface, evident instead is strong alteration and gossanous mineralogy. Minor malachite was noted staining the vein surface in places, suggesting the presence of chalcopyrite. Visible gold was also noted on fracture surfaces within the vein. Outcropping is restricted in the vicinity of the Fingas Showing, so that the shear was only exposed for ~5 m on surface. Four grab samples of the vein ranged from 13.7 - 101.8 g/t Au, while two samples of the sheared wallrock yielded 1.5 and 2.7 g/t Au. A gossanous boulder of similar appearance was also sampled ~100 m SW of the Fingas Showing, returning 5.1 g/t Au.



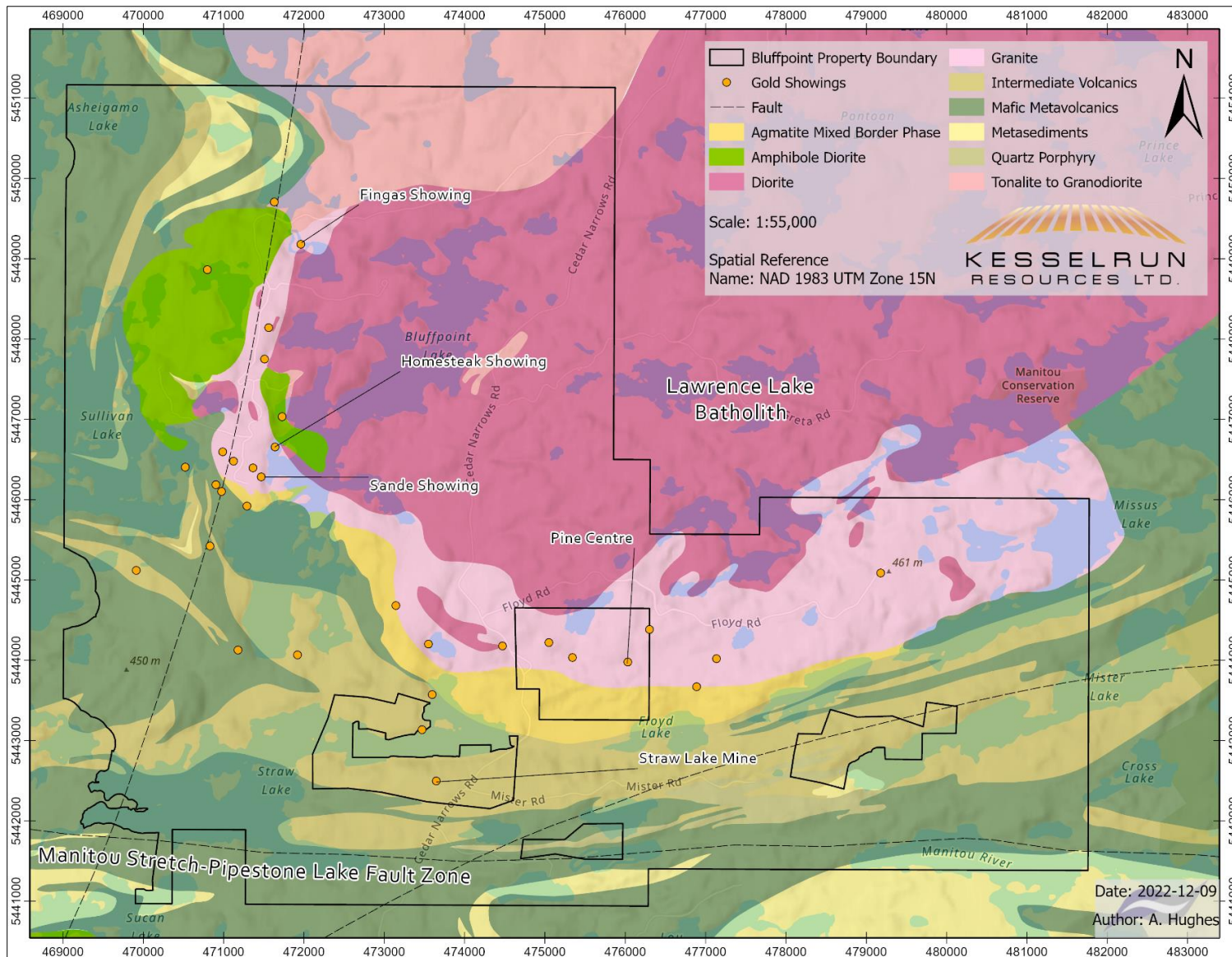


Figure 12: Local geology and known gold showings located on the Property.



## 8 Deposit Types

The interpreted geology in and around the Bluffpoint property is conducive to epigenetic mesothermal gold mineralization of two types; namely bulk-tonnage granodiorite batholith-hosted and high-grade narrow vein shear hosted deposits.

### 8.1 Bulk-tonnage Granodiorite Batholith-hosted Deposits

Bulk-tonnage granodiorite batholith-hosted gold is currently the priority target on the Bluffpoint property. Granodiorite batholith-hosted gold is a relatively new deposit type first identified at Osisko's Hammond Reef project (6.7 million ounces averaging 0.8 g/t) in Atikokan, Ontario, and now recognized at Trelawney Mining's Chester Township property (the Cote Lake Deposit) between Sudbury and Timmins. Note, however, that no official terminology has been adopted and some geologists consider Hammond Reef to be similar to the Fort Knox deposit in central Alaska (Rennie, Lambert, & Krutzelmann, 2009). Granodiorite batholith-hosted gold presents significant potential for exploration both because it has only recently been recognized as a deposit type and because of its occurrence in batholiths, a terrain which is typically under-explored relative to the surrounding rocks. Many aspects of batholith-hosted gold are poorly understood since little research has been performed and no deposits have yet been brought into production. The deposit model is described below, with an emphasis on the Hammond Reef deposit which can be considered as the "type" deposit.

#### 8.1.1 Characteristics

The deposits tend to occur in close proximity to faults and shears, particularly at structural intersections. Known deposits (including Hammond Reef and Cote Lake) are localized along the relatively deformed margins of batholiths. Despite the close association with shears and faults, the batholith-hosted deposits are not localized directly within the shears but instead occur as shallow-dipping roughly tabular bodies with significant thickness and strike length (about 450 m by 3 km at Hammond Reef).

Mineralization within the zone consists of subparallel slabs and pods showing stockworks, fracturing and alteration. Quartz alteration is ubiquitous, both as silica flooding and as vein-filling material forming veins, stringers and stockworks. Rocks may also show varying degrees of chlorite, calcite, ankerite, sericite, saussaurite, pyrite, hematite and fuchsite alteration. A number of other minerals have been identified in trace amounts including galena, chalcopyrite, sphalerite, bornite, bismuth telluride, stromeyerite (AuCuS) and molybdenite. Based on this mineralogy, a fairly typical (for Archean gold) Au-Ag-Cu-Pb-Zn-Te-Mo-Bi association can be inferred for Hammond Reef; whether this association also applies to other deposits of this type is unknown.

Within the mineralized zone grades typically range from 0.2 to 2 g/t, although much higher grades have been reported at Hammond Reef (up to 68.9 g/t), generally within quartz veins. Gold occurs as free native



gold, with most grains less than 15 µm in size. The most important control on gold appears to be the presence of significant densities of brittle fractures. Gold is also broadly correlative with pyrite content and is preferentially sited on pyrite aggregate grain boundaries (Rennie, Lambert, & Krutzmann, 2009). The presence of bismuth tellurides (generally as greyish smear and stains) is also considered a reliable indicator of significant grade.

### ***8.1.2 Bluffpoint Granodiorite Batholith-Hosted Deposits***

In the Bluffpoint project area, two deposits have been identified which share many characteristics with the Hammond Reef deposit; these are the Pine Centre Showing north of Floyd Lake and the Island Showing. Both deposits are developed within the CZT phase of the Lawrence Lake Batholith, both show a strong association with intersecting structures, and both are relatively large but low grade (average grades range from ~0 – 6 g/t, with an estimated average of 509 ppb for the Island Showing (MacPherson, 1992). Because drilling has never been performed, the subsurface morphology of the Island Showing is unknown; however, the Pine Centre Showing is thought to be a shallow-dipping tabular body 5 m to 20 m thick with 700 m strike length.

The mineralized zones consist of intensely fractured (in places >10 fractures per linear metre) trondhjemite (granodiorite) exhibiting quartz veining, stockworks and flooding and a variety of alteration phases including silica, saussurite, sericite, pyrite, chlorite, pale greenish carbonate, ankerite and hematite. Gold occurs as fine native gold, and is visible within some quartz veinlets. Gold grade is correlative with fracturing/alteration intensity, with pyrite content (which may be up to 10% at fracture intersections), with quartz veining (which often shows elevated gold grades) and possibly with cross-cutting fault structures. Gold is inversely correlative with magnetite content and pyrite is thought to replace magnetite within the zone. To date, detailed geochemistry has not been carried out on either deposit and the geochemical signature of these deposits is unknown.

Apart from these two main zones, a number of other showings have been identified within the batholith, including the Original Showing just south of the Island Showing and the Pine Hill Showing just to the west of the Pine Centre Showing; of these, only the Original Showing is situated within the Bluffpoint property. These showings consist of much smaller zones of shallow-dipping pyritic quartz stringers and veins exhibiting only minor wall-rock alteration haloes. Most of the gold in these showings is concentrated within the veins. Significant gold values (up to 11 g/t at the Original Showing) have been recorded within these showings but due to their limited extent, they are considered to be much less prospective than those showings exhibiting significant wall-rock alteration.

Another showing of interest is the Harris Lake Showing south of Harris Lake where gold mineralization appears to be hosted in a slightly pyritic (<1%) lightly altered or visibly unaltered granitoid (Sande, 1994); best assay results were 4.4 g/t Au. The sampling site is approximately 1.5 km from the batholith margin and is thus situated similarly to the Island and Pine Centre Showings. Further work is needed to determine whether this could be part of a larger zone and what characteristics (if any) it shares with other granodiorite batholith-hosted gold deposits.



## **8.2 High-grade Shear-hosted Quartz-carbonate Veins**

This deposit type has a long history of exploitation throughout the Canadian shield and includes many of Canada's most important gold producers (e.g. Sigma-Lamaque, Dome, Hollinger-McIntyre, Pickle Crow). The deposit model is briefly outlined below.

### ***8.2.1 Characteristics***

Shear-hosted quartz-carbonate deposits are characterized by the formation of gold-bearing quartz carbonate veins in shear zones within deformed greenstone belts. Veins can be hosted in any lithology within the greenstone belt; generally, each district has particular host rocks which may be most favourable on chemical or structural grounds (Dubé & Gosselin, 2007). Host structures tend to be moderately to steeply dipping compressional brittle-ductile shear zones and faults in proximity to major crustal fault zones. Although any greenstone is a potential host, world-class deposits tend to show associations with tholeiitic basalts and ultramafic komatiitic flows, swarms of albitite and lamprophyre dykes and regional unconformities.

The principal vein gangue minerals are quartz and carbonate (Ca, Mg and Fe carbonates) with variable sericite, chlorite, tourmaline and scheelite. Sulfides may also be present, including pyrite, pyrrhotite, chalcopyrite, molybdenite and arsenopyrite; they typically constitute less than 10% of the vein by volume. The geochemical signature of quartz-carbonate deposits is typically Au, Ag, As, W, B, Sb, Te, and Mo, sometimes with anomalous Cu, Pb and Zn. Gold usually occurs in the native form, and is often visible to the naked eye. The average grade for Canadian quartz-carbonate deposits is about 10 g/t Au, while Au:Ag ratios usually range from 5:1 to 10:1. Gold is largely confined to the quartz-carbonate veins, but sulfidized wall-rock can also attain economic grades.

### ***8.2.2 Bluffpoint Shear-Hosted Quartz-Carbonate Deposits***

The primary example of a shear-hosted gold vein deposit in the Bluffpoint project area is the Straw Lake Beach Mine, located just south of Straw Lake. All development at the mine was along a single quartz vein, which was mined to a depth of 220 m and drifted on over a strike length of about 325 m; post-closure drilling has indicated that the gold-bearing horizon may actually stretch for 1.4 km or more. The vein is generally 5 cm to 65 cm in width, although in places it branches into sets of smaller parallel veins. The vein is hosted along the contact between a 'sericite-schist' (a highly sheared and altered felsic volcanic unit) and a vertically dipping mafic volcanic unit, in a shear zone associated with Manitou Stretch-Pipestone Lake Fault. Although mineralization is primarily in the vein, economic grades (up to 12 g/t) have also been encountered within the host felsic volcanics and within sulfide iron formation intersected during mining.



Average gold grades within the vein are ~6 g/t, although locally much higher assays have been recorded (including a 24.43 oz/ton gold sample taken from the mine dump in 2006). The gold to silver ratio is approximately 10:1. The vein is primarily quartz with some pyrite and lesser amounts of magnetite, carbonate, sphalerite, galena, tetradymite, chalcopyrite and native gold; pyrite alteration and low anomalous gold extends into the wall-rock on both sides. It has been noted that gold content in the vein is inversely proportional to tetradymite content.

Apart from the Straw Lake Beach Gold Mine, a number of other smaller gold-bearing veins are known from the Bluffpoint Lake area; these include the Konigson Showing on the north shore of Straw Lake, the Johnston Vein (about 400 m north of the Konigson vein) and the Cracker Jack occurrence (somewhere to the east of the Bluffpoint property). Based on the presence of significant shear zones (particularly the PCMDZ) as well as an expansive package of underexplored volcano-sedimentary rocks and a widespread distribution of gold mineralization in the area, there is considerable potential for further gold bearing shear-hosted quartz vein deposits on the property.

### **8.3 Other Significant Deposit Types**

The Gates Bay and Sorry Mac occurrences just to the east of the property are of the disseminated type in volcano-sedimentary rock, and thus represent a type of deposit distinct from the deposits discussed above. These deposits consist of strongly sheared, rusty, mineralized schists which have been silicified, sericitized, carbonatized, pyritized and occasionally chloritized and locally contain quartz veinlets and stringers. They may be of significant width (up to 50 m) and extend for considerable strike lengths. The mineralogy is quite distinct from the shear hosted quartz veins, with the major gangue minerals being pyrite and arsenopyrite. Gold grades seem to be highest in areas of very high arsenic concentration, with assays up to about 18 g/t in very arsenic rich areas (Jaworski, 1990). Although neither the Gates Bay nor the Sorry Mac deposits are on Fladgate's claim block, there is potential for further occurrences of this type of mineralization within the volcano-sedimentary units on the Property.

Potential for another type of deposit also exists to the northwest of the property in a highly altered, quartz-veined and pyritized biotite granodiorite plug to the south of Hill Lake (Chivers, 1986). Currently it is unknown whether this granodiorite is gold-bearing; additionally, it is unknown whether the observed alteration is intrusion-related or whether the alteration is externally derived (e.g., alteration related to a shear zone). In any case, gold related to intrusive bodies is a fourth possible exploration target in the Bluffpoint project area.



## 9 History of Exploration on the Property

### 9.1 Previous Exploration Programs

The Bluffpoint project area, in particular to the south (within the greenstone belt), has a long history of exploration. Mining activity was initiated in 1899 by the CrackerJack Gold Mining Company, which sank 3 small shafts on a discontinuous 80 cm thick gold-bearing quartz vein to the east of the property. Since then, exploration involving several different companies and individuals has continued intermittently up to the present time. A summary/overview of historical exploration activities on and adjacent to the Bluffpoint Property is presented in Table 2. Historically, the best explored area in proximity to the property is the Straw Lake area, where the Straw Lake Beach Gold Mine was operated from 1938 – 1941. The mine patents are currently held by prospector Todd Ryznar. Most of the Lawrence Lake Batholith (and thus most of the Bluffpoint Property) is relatively unexplored, with exploration efforts to date concentrated on the Pine Centre and Homestake Showing. Pine Centre is currently controlled by Mineral Mountain Resources, while Kesselrun owns the Homestake Showing.

**Table 2:** Summary of Past Exploration on the Bluffpoint Property.

Year	Operator	Nature of Work	Principal Reference
1899	CrackerJack Gold Mining Company	Shaft sinking	OFR 5753, p. 89, 90, 1990
1901	Pan American Exposition	Prospecting	-
1914	Drummond Mines	Prospecting	Historical Files, 52F/03 SW00005, EMR#508937 (1974), Kenora Resident Geologist Office
1927	Ed Konigson	Prospecting, shaft sinking	"The Evening News-Chronicle" - Saturday, October 27th, 1934
1933	Murdock Mosher, Fred Grozelle	Prospecting	52F03NW0043
1933	William Lucy	Prospecting	Historical Files 52F/03NW00003, SMDR#01402, Kenora Resident Geologist Office
1934-1938	Straw Lake Beach Gold Mines Syndicate	Development, trenching, drilling	Report on the Straw Lake Beach Gold Mines Limited, Assessment File, Kenora Assessment Files, MNDM
1935	Ontario Department of Mines	Report	Geology of the Straw Lake-Manitou Lakes Area, O.D.M. Annual Report., Vol 43., pg 4.
1938-1941	Straw Lake Beach Gold Mines Syndicate	Mining, drilling	Report on the Straw Lake Beach Gold Mines Limited, Assessment File, Kenora Assessment Files, MNDM
1940	Sylvanite Gold Mines/Noranda Mines	Geologic mapping and sampling	-
1942	Golddale Mines/Birch Bay Gold Mines	Trenching, drilling	-
1944	Sylvanite Gold Mines/Noranda Mines	Drilling	-
1944	Golddale Mines/Birch Bay Gold Mines	Drilling	-
1952	Conwest Exploration	MAG survey, drilling	AFRI 52F03SW0005
1969	Canadian Nickel Company	Drilling	-



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1970	Freeport Canadian Exploration	Airborne EM + MAG	AFRI 52F11NE0050
1971	Freeport Canadian Exploration	Drilling	AFRI 52F03NW0040, etc.
1971	Canadian Nickel Company	Drilling	AFRI 52F03NE0036
1976	Mindel Mines	Sampling, drilling	-
1976	Ontario Geological Survey	Regional geologic mapping	OFR r222
1979	Robert Fairservice	Prospecting, sampling, trenching	AFRI 52F03NW2001
1980	Selco Mining	Drilling	AFRI 52F03NW0036
1980-1981	Selco Mining	Prospecting, geologic mapping, MAG and EM surveys	AFRI 52F03NW0033
1981	Noranda	Drilling	AFRI 52F03NW0032
1981	Teck Exploration	Drilling	AFRI 52F03SW0004
1981	R. Portelance	Trenching	-
1981	The Sulphide Syndicate	EM and MAG surveys	AFRI 52F03SE0006
1982	Noranda	Geochemical and geophysical (IP) surveys, trenching, drilling	AFRI 52F03NW0029
1983	Norontex Exploration Ltd.	Prospecting	AFRI 52F03NE0024
1983	J. Scouten	Staking	-
1983	Sparton Resources	Geologic mapping, trenching, soil sampling, VFL-EM/MAG/IP surveys, drilling	AFRIs 52F03NE0019, 52F03NE0029
1984	Sparton Resources	Geologic mapping, trenching, soil sampling, geophysical surveys, drilling	AFRI 52F03NE0013
1984	Canadian Nickel Company	MAG + EM survey	AFRI 52F03NW0026
1985	Minnova/Corporation Falconbridge	Geologic mapping, sampling, trenching, IP survey, humus survey and diamond drilling	AFRI 52F03NW0016
1985	J. A. Bolen	Prospecting, geologic mapping, MAG and EM surveys	AFRI 52F03NW0021
1986	Consolidated Silver Standard Mines	VLF-EM and MAG surveys	AFRI 52F03NW0020
1987	Robert Fairservice	Staking	-
1987	Consolidated Silver Standard Mines	Geologic mapping, geochemical survey	AFRI 52F03NW0019
1987	Noranda Exploration	Airborne magnetic, VLF + radiometric surveys	AFRIs 52F03NE0009, 52F04NE0775
1988	J.A. Bolen	MAG + EM survey	AFRI 52F03NW0013
1988	J.A. Bolen	Drilling	AFRIs 52F03NW0014, 52F03NW0017
1988	Dayton Porcupine Gold Mines	MAG survey, waste dump sampling, diamond drilling	AFRI 52F03NW0010
1988	David Sande	Prospecting, sampling	AFRI 52F03NW0011



1989	Homestake Mineral Development Co.	Ground VLF-EM, mag, IP, soil geochemistry, geologic survey, trench cleaning, sampling	AFRI 52F03SE0003
1989	Minnova	Drilling	AFRI 52F03NW0016
1989	David Sande	Trenching, sampling	AFRI 52F03NW0006
1990	David Sande	Trenching, sampling, geologic mapping	AFRI 52F03NW0004
1990	Homestake Mineral Development Co.	Drilling	AFRI 52F03NE0005
1990	Dennis Sweany	Sampling	AFRI 52F03SE0003
1990	J.A. Bolen	Drilling	AFRI 52F03NW0007
1991	William Ross	Trenching, prospecting, sampling	AFRI 52F02NE0002
1992	Homestake Canada	Trenching, sampling, prospecting, geological mapping, geophysical surveys (VLF + MAG)	AFRI 52F03NW8180
1992-1994	David Sande	Prospecting, trenching, sampling	AFRI 52F03NW0030
1993	Ontario Geological Survey	Geologic Mapping	OFR r282
1994	Tri-Origin	Grid cutting, IP survey, trenching	AFRI 52F03NW0003
1995	Tri-Origin	HLEM survey, diamond drilling	AFRI 52F03NW0044
1996	Tri-Origin	Ground TDEM survey, geologic survey, sampling	AFRI 52F03NW0046
2000	Robert Fairservice	Prospecting, sampling	-
2003	Opawica Explorations	Trenching, sampling, geologic mapping	AFRI 52F03NW2002
2004	Opawica Explorations	Diamond drilling	Opawica Press Release
2005	Shotgun Exploration	Sampling	<a href="http://www.shotgunexploration.com/">www.shotgunexploration.com/</a>
2010	OGS	Airborne mag	M60146
2011	Kesselrun Resources	Mapping, prospecting, sampling	AFRI 20000007530
2012	Kesselrun Resources	Drilling, mapping, prospecting, sampling, stripping	20000007502, 20000007503
2013	Kesselrun Resources	Drilling, Prospecting	20000008042
2016	Kesselrun Resources	Prospecting, mapping, sampling, trenching	20000015255

## 9.2 Historic Exploration in the Bluffpoint Area (Breakhouse, 1988) (Chivers, 1986)

In 1976, the Ontario Geologic Survey (OGS) published Report 222 “Geology of the Straw Lake Area”. In this report, mention was made of a 0.54 oz/ton Au grab sample taken in the Lawrence Lake Batholith north of Floyd Lake. In 1979 the area was staked, trenched and sampled by Robert Fairservice who obtained an average of 5.79 g/t Au from 11 samples. The property was optioned and drilled by Selco





Mining in 1980. Initial drill results were disappointing (best assay 1.03 g/t Au over 0.61 m) but Selco continued its program in 1981 with EM/MAG surveys, geologic mapping, prospecting and further drilling. The company returned the property to Fairservice at the end of 1981 and he then optioned it to Noranda Exploration in 1982. Noranda carried out geochemical and geophysical (IP) surveys over a larger area as well as trenching and drilling; trenching results were positive (16.8 g/t Au over 3.05 m and 3.77 g/t Au over 3.05 m) but drill results were disappointing and the property was once again returned to R. Fairservice. In 1985 the property was optioned out to Minnova which undertook a program of geologic mapping, IP survey, humus survey, soil sampling and trenching; and identified multiple anomalies. Extensive drilling was carried out over the next 4 years, with a total of 28 holes being drilled on the property; the best results were 2.02 g/t Au over 5.6 m, 3.12 g/t Au over 4.8 m and 4.32 g/t Au over 1.5 m. The program delineated a gold-bearing alteration system approximately 244 m x 23 m around the Pine Centre gold showing before the claims were allowed to lapse.

In 2000, Robert Fairservice re-staked part of the claim block and discovered a new showing. He subsequently optioned the claims to Opawica Explorations (Opawica) in 2003. Opawica conducted extensive trenching and sampling across the property and obtained the best results near the Pine Centre showing with about 2.85 g/t Au over 20 m. Subsequently, Opawica drilled 22 holes on the property; while initial results were encouraging (highlights include 1.25 g/t Au over 14.5 m, 1.0 g/t over 15.7 m, 3.43 g/t over 3.2 m and 6.39 g/t over 0.8 m), later drilling results were disappointing and Opawica dropped the option. The claims were transferred in 2006 to Western Warrior (later Whetstone Minerals), which sold its option to the current holder Mineral Mountain in 2011.

In 1988, David Sande staked and prospected a claim block in the Lawrence Lake Batholith to the west of Fairservice Showing. Two samples of altered granitoid returned 2.74 g/t Au, and trenching in 1989 returned a best result of 10.3 g/t over 1.5 m. In 1990, D. Sande conducted a larger program of geologic mapping, trenching and sampling. The results confirmed the 1989 trenching results (Original Showing) and identified another gold showing a little further to the north (Island Showing). In 1992, Sande optioned the property to Homestake Canada (Homestake). Homestake carried out soil humus and geophysical (EM + MAG) surveys, geologic mapping, trenching, sampling and prospecting over a fairly large area, with trenching focusing on the Island Showing. Geologic mapping delineated a gold-bearing alteration zone approximately 345 m x 40 m in area (Island Showing) from which a total of 160 linear m of channel sampling yielded an average grade of 0.509 g/t Au. A number of additional showings were also identified to the north and southwest. Homestake considered the mineralization to be insufficient to warrant further work, and the claims were allowed to lapse. No drilling was carried out on the property. The Showings and surrounding area were re-staked by Michael Thompson in late 2010; these were later transferred to Kesselrun Resources.

In 2011, Kesselrun Resources completed a program of mapping/prospecting, soil sampling and channel sampling focussed on the historic Homestake Showing. Work was primarily concerned with relocating historic zones and performing due diligence on past sampling work. Kesselrun was successful in locating the Homestake and Northern showings, and resampling the Homestake stripped areas. Highlights of Fladgate's channel sampling include 7.37 g/t Au over 1.0 m, 6.07 g/t Au over 1.3 m, and 3.52 g/t Au over



1.0 m. Out of a total of 73 channel samples collected, 33 assayed above 0.5 g/t Au. A B-horizon soil grid over the Homestake showing showed a moderate response, with soil samples up to 0.226 g/t Au (see Figure 5). A further 356 reconnaissance soil samples in the northern portion of the property also returned interesting values, including a 1.27 g/t B-horizon sample. Prospecting uncovered a new showing, dubbed the Fingas showing, approximately 2.5 km north of the Homestake Showing (and ~1 km north of any other known showings on the property); a grab sample on the Fingas showing returned 17.85 g/t Au and was stripped during this program.

Following up on results from the previous year, Kesselrun initiated an extensive exploration program in 2012-2013, including mapping, prospecting, soil sampling, stripping, channel sampling and ultimately drilling. Mapping and 60 grab samples in the vicinity of the Homestake showing helped in the selection of stripping locations. Highlights of the grab sampling include 0.29 g/t Au near the northern-most exploratory trenches, and a 2.26 g/t Au sample collected approximately a kilometer along strike to the north of the Homestake Showing. The 2.26 g/t Au sample may correlate to the historic Northern Showing. Other significant assays confirmed the presence of gold mineralization at both the Homestake and the Original showings.

## 10 Current Program

From September 19 – November 3, 2022, a drone magnetic survey was carried out on the Bluffpoint property. The survey consisted of 126 North-South flight lines spaced at 50m and 75 East-West tie lines spaced at 100m. The survey was flown at a height of 75m. The total line kilometres flown were 1215 km. **Table 3** summarizes the total line kilometers flown per claim on the Bluffpoint property. The goal of the survey was to map the magnetic signature of the underlying geology.

**Table 3 : Distribution of Work by Mining Claims**

Claim #	Line Kilometers Flown
101317	6.4
101692	6.4
101712	4.0
101713	6.4
104245	4.7
104346	6.4
110811	6.4
115114	6.4
116180	6.4
116181	6.4
116195	6.4



<b>Claim #</b>	<b>Line Kilometers Flown</b>
116727	6.4
116728	6.4
117808	6.4
117820	6.4
121364	6.4
122343	6.4
122344	6.4
122514	4.7
122370	6.4
123691	6.4
123843	6.4
123844	6.4
124093	6.4
124371	6.4
124377	6.4
127622	6.4
127623	6.4
127624	6.4
129494	6.4
135734	6.4
136095	6.4
136096	6.4
141635	6.4
148814	6.4
151701	6.4
152367	6.4
159470	6.4
160167	6.4
160168	6.4
161491	6.4
161492	0.5
161758	6.4
164552	6.4
166188	6.4
166980	4.0
168958	6.4
168980	6.4
178078	6.4
179009	6.4
180338	6.4
180339	6.4



<b>Claim #</b>	<b>Line Kilometers Flown</b>
181236	6.4
181771	6.4
181782	6.4
181783	6.4
181784	6.4
186023	6.4
187560	6.4
192187	4.0
192188	6.4
194947	6.4
196243	6.4
196244	6.4
196245	6.4
196246	6.4
196247	6.4
196836	6.4
196850	6.4
204291	6.4
204292	4.0
204870	4.0
204871	6.4
205640	6.4
206285	6.4
206286	6.4
207871	6.4
210795	4.7
210796	6.4
210928	6.4
212275	6.4
212276	6.4
212277	6.4
212278	6.4
214911	6.4
214912	6.4
214913	6.4
214914	6.4
215194	6.4
215643	6.4
215671	6.4
215674	6.4
215675	4.7



<b>Claim #</b>	<b>Line Kilometers Flown</b>
216998	6.4
217653	6.4
217654	6.4
217655	6.4
229472	6.4
229611	6.4
232191	6.4
233668	6.4
233695	6.4
233697	6.4
233851	6.4
235125	6.4
235365	6.4
235702	6.4
242181	6.4
244816	6.4
244817	6.4
248340	6.4
249680	6.4
252185	4.0
252679	6.4
254850	6.4
255669	6.4
257051	6.4
257929	6.4
258792	4.7
261564	6.4
262873	6.4
262874	6.4
264195	6.4
264887	6.4
264898	6.4
264899	6.4
267149	6.4
267150	6.4
269538	6.4
270328	6.4
270329	6.4
270330	6.4
270864	6.4
271137	6.4



<b>Claim #</b>	<b>Line Kilometers Flown</b>
271678	6.4
271741	6.4
271742	6.4
272357	6.4
272358	6.4
272359	6.4
272872	6.4
273779	6.4
278737	6.4
280683	6.4
280684	6.4
282964	6.4
282965	6.4
282966	6.4
284936	6.4
284937	6.4
284949	6.4
284950	6.4
287973	6.4
289278	6.4
289772	6.4
289773	6.4
289774	6.4
290309	6.4
290310	6.4
290311	6.4
291092	6.4
291148	6.4
291149	6.4
291435	6.4
291436	6.4
291437	6.4
291766	6.4
296827	6.4
298912	6.4
301422	6.4
303551	6.4
312426	6.4
314904	4.0
314905	6.4
314906	6.4

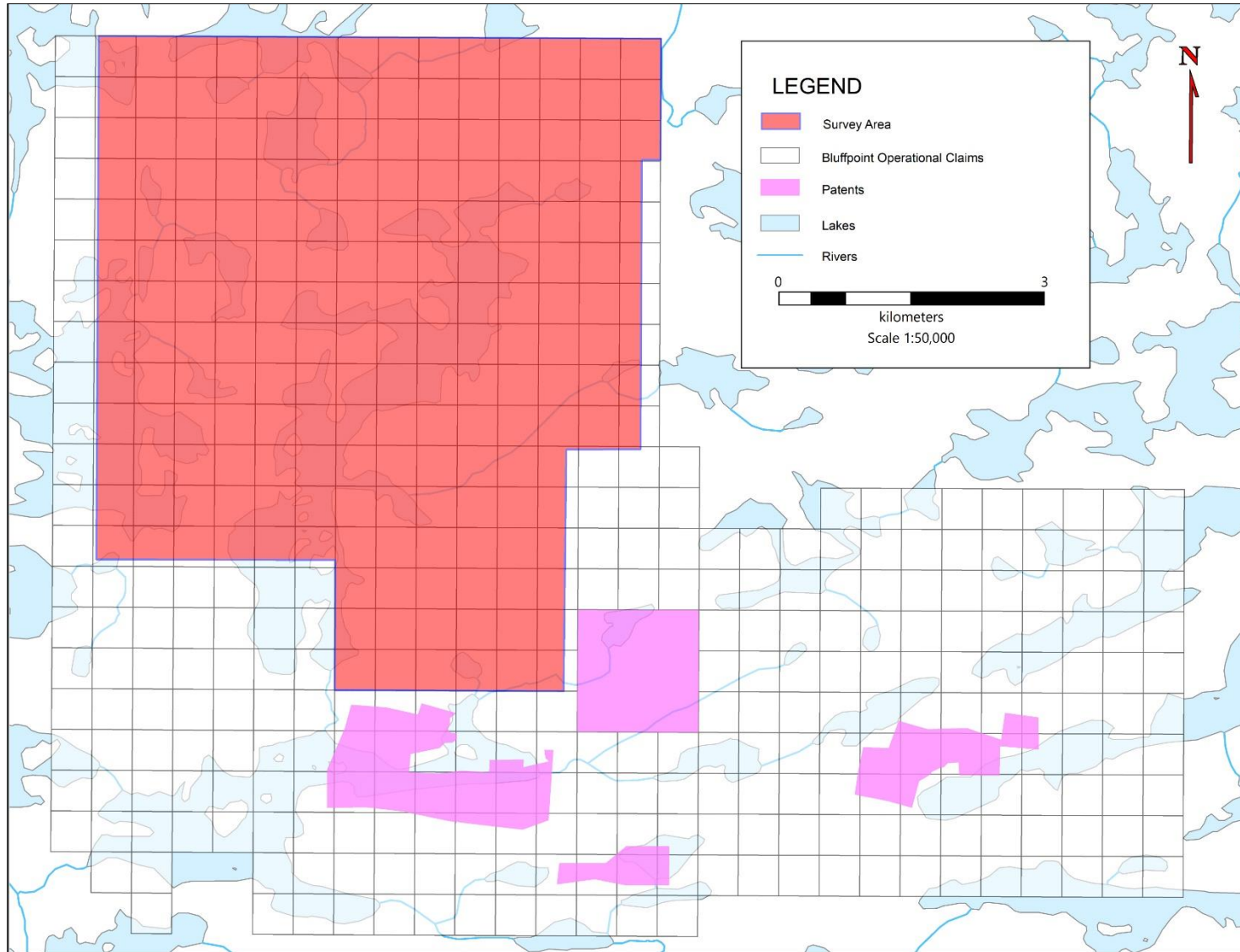


<b>Claim #</b>	<b>Line Kilometers Flown</b>
314907	6.4
318064	6.4
320987	6.4
325462	4.7
327503	6.4
329528	6.4
329607	6.4
330843	6.4
339655	6.4
339656	6.4
340552	6.4
340553	6.4
341361	6.4
341474	6.4
341899	0.2
342317	6.4
342708	6.4
343363	6.4
343380	6.4
343381	6.4
343386	6.4
<b>TOTAL</b>	<b>1215</b>

Universal Ground Control Software (UgCS) was used in planning the drone survey. Flight lines were planned as perpendicular as possible to the known underlying geology and at a flight speed of 9.0 m/s.

The principle geophysical sensor used was a Gem Systems Canada GSMP-35U potassium vapor sensor mounted on a UAV platform. General specifications for the magnetometer can be found in Appendix 1 of this report: Instrument Specifications.

Fladgate used the DJI Matrice 600 Pro UAV to complete this survey. Specifications of the UAV used can also be found in Appendix 1 of this report.



**Figure 13:** Overview Map of Bluffpoint Drone Survey



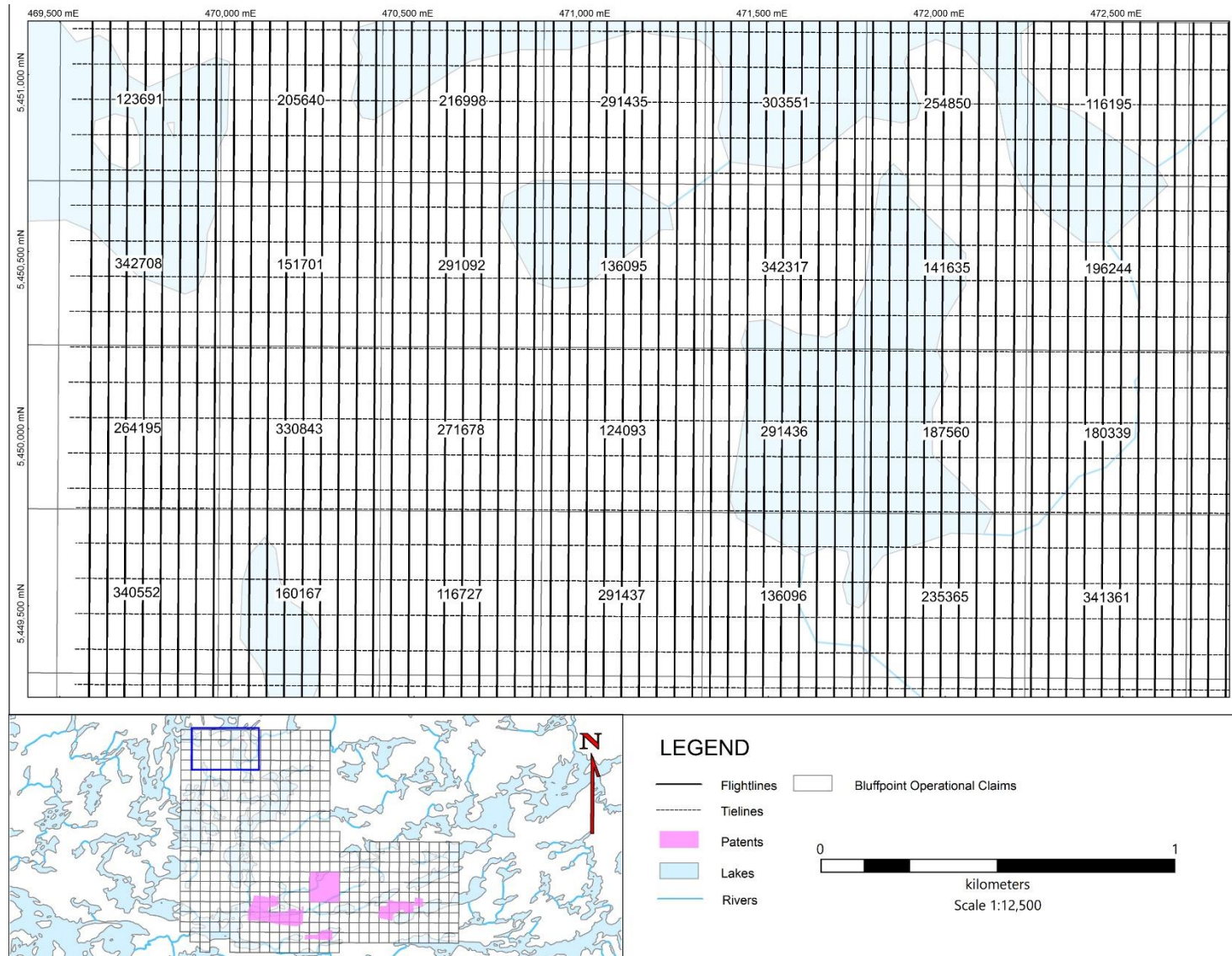


Figure 14: Bluffpoint Drone Survey Flight and Tie Lines. 1 of 8

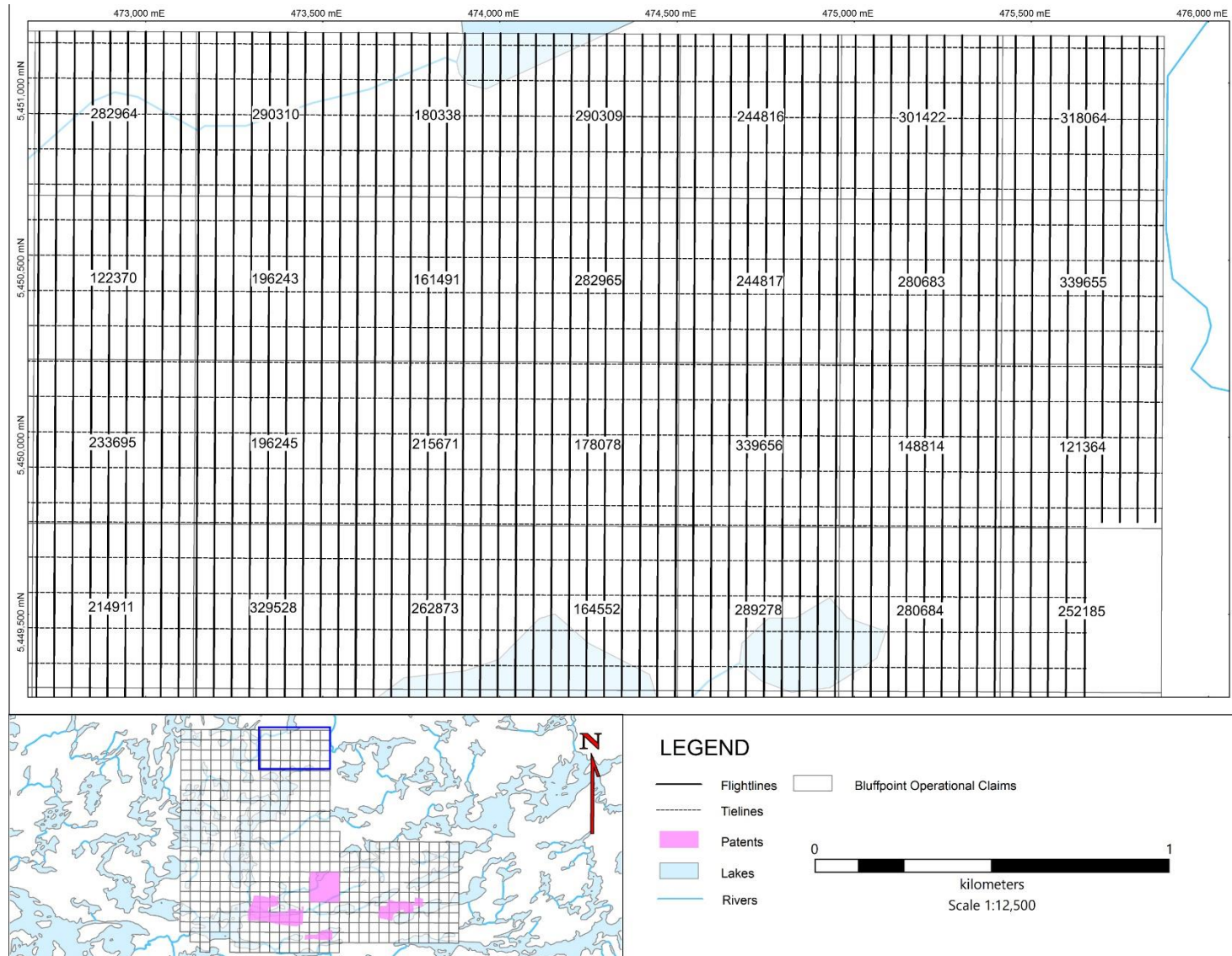


Figure 15: Bluffpoint Drone Survey Flight and Tie Lines. 2 of 8

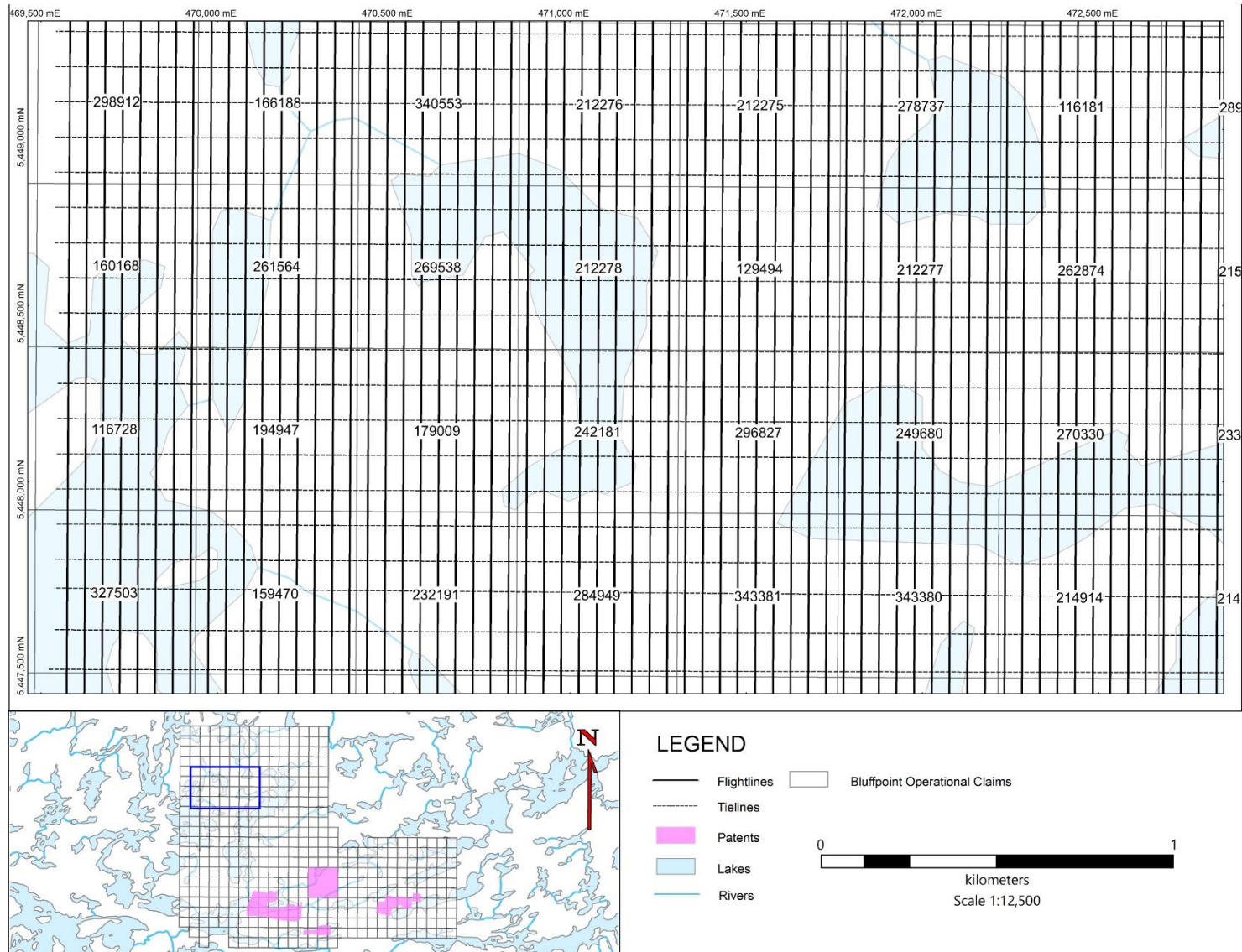


Figure 16: Bluffpoint Drone Survey Flight and Tie Lines. 3 of 8

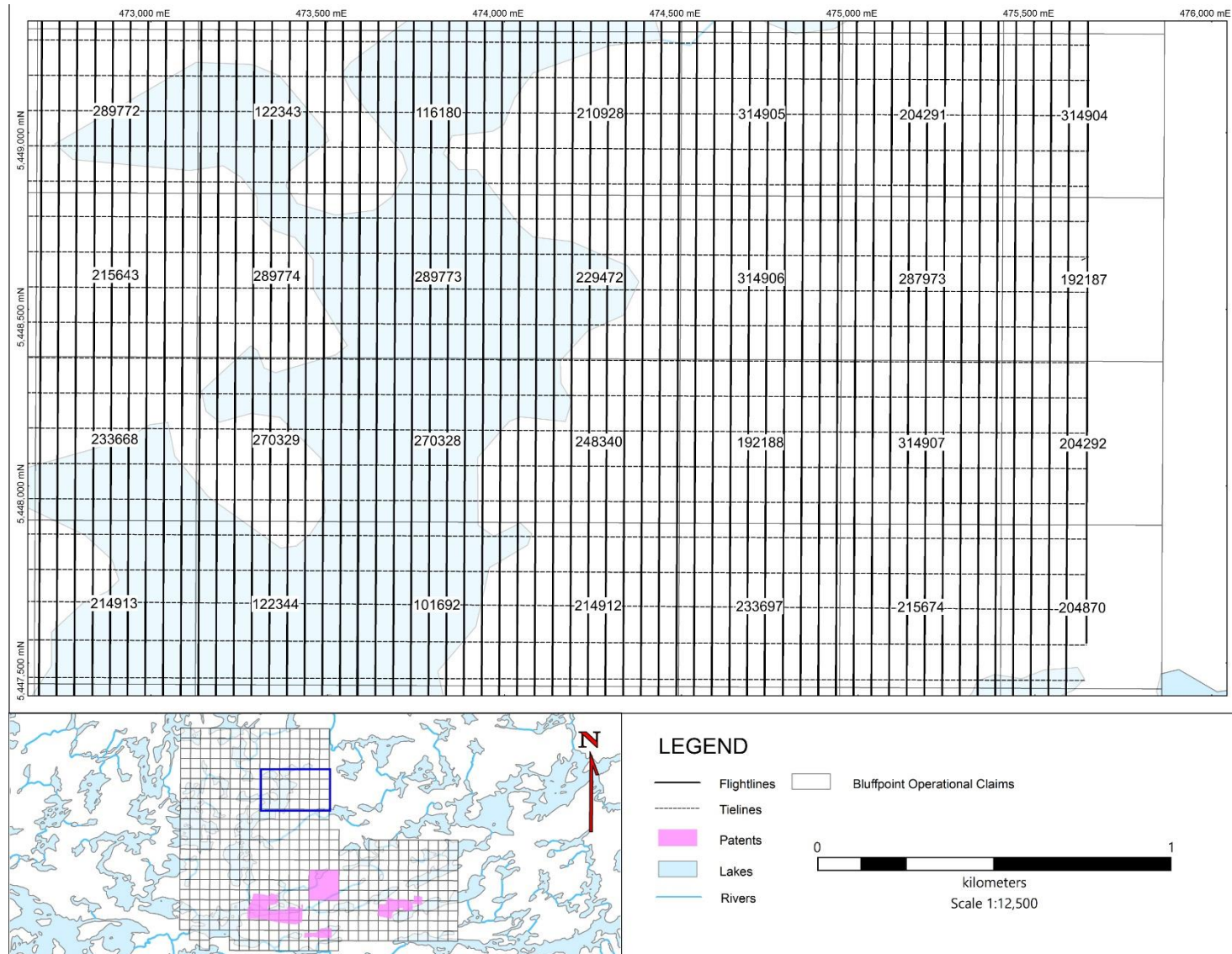


Figure 17: Bluffpoint Drone Survey Flight and Tie Lines. 4 of 8

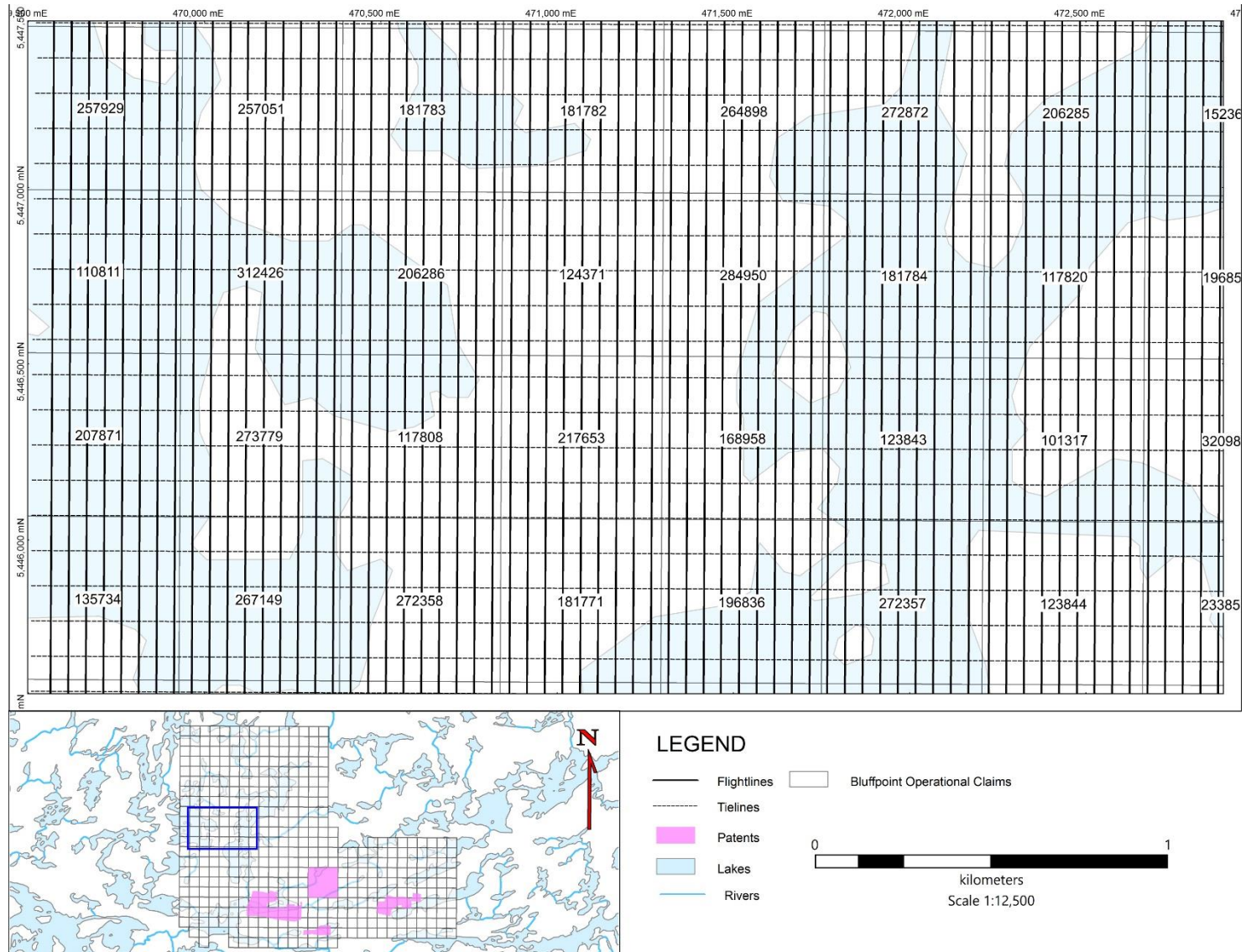


Figure 18: Bluffpoint Drone Survey Flight and Tie Lines. 5 of 8

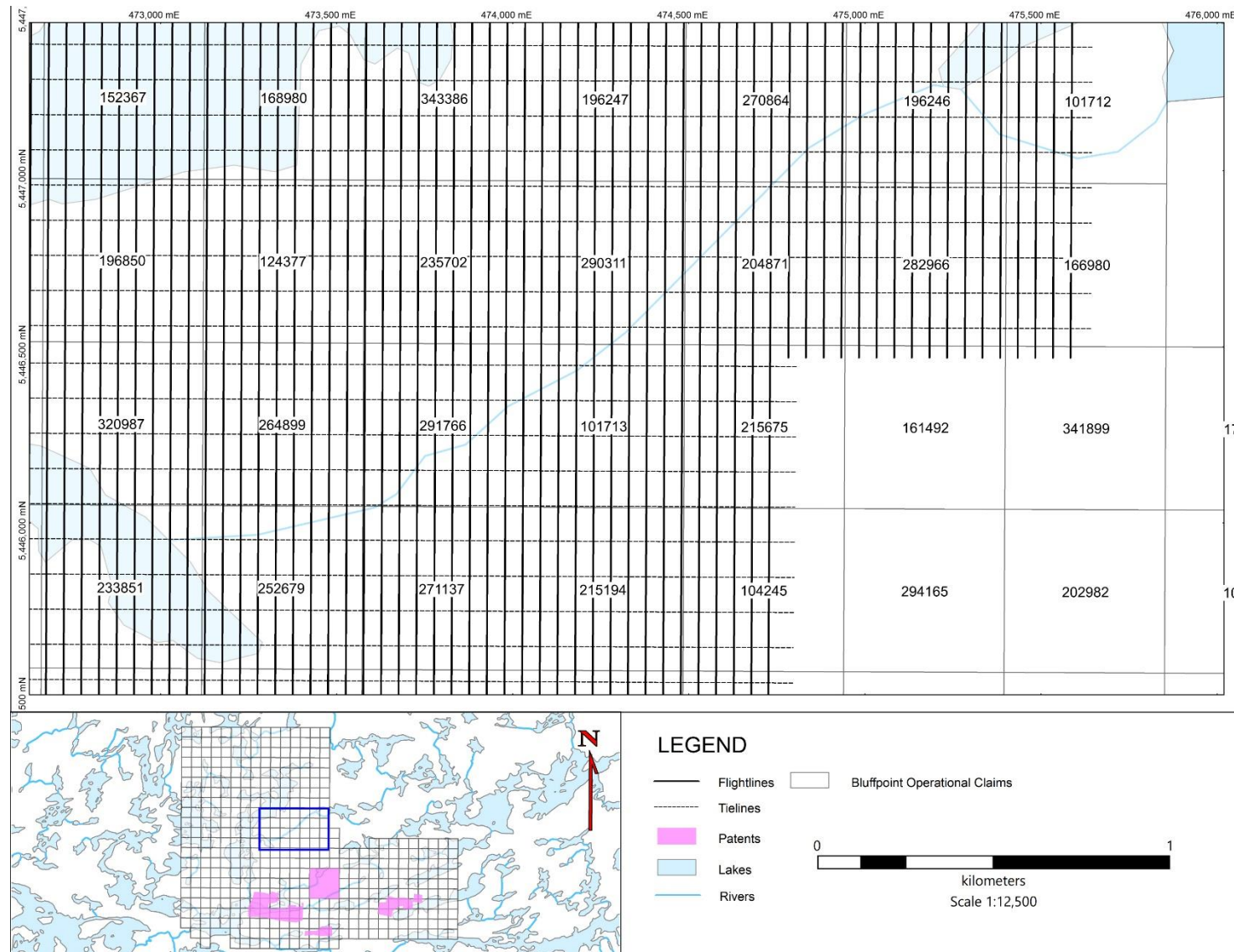


Figure 19: Bluffpoint Drone Survey Flight and Tie Lines. 6 of 8

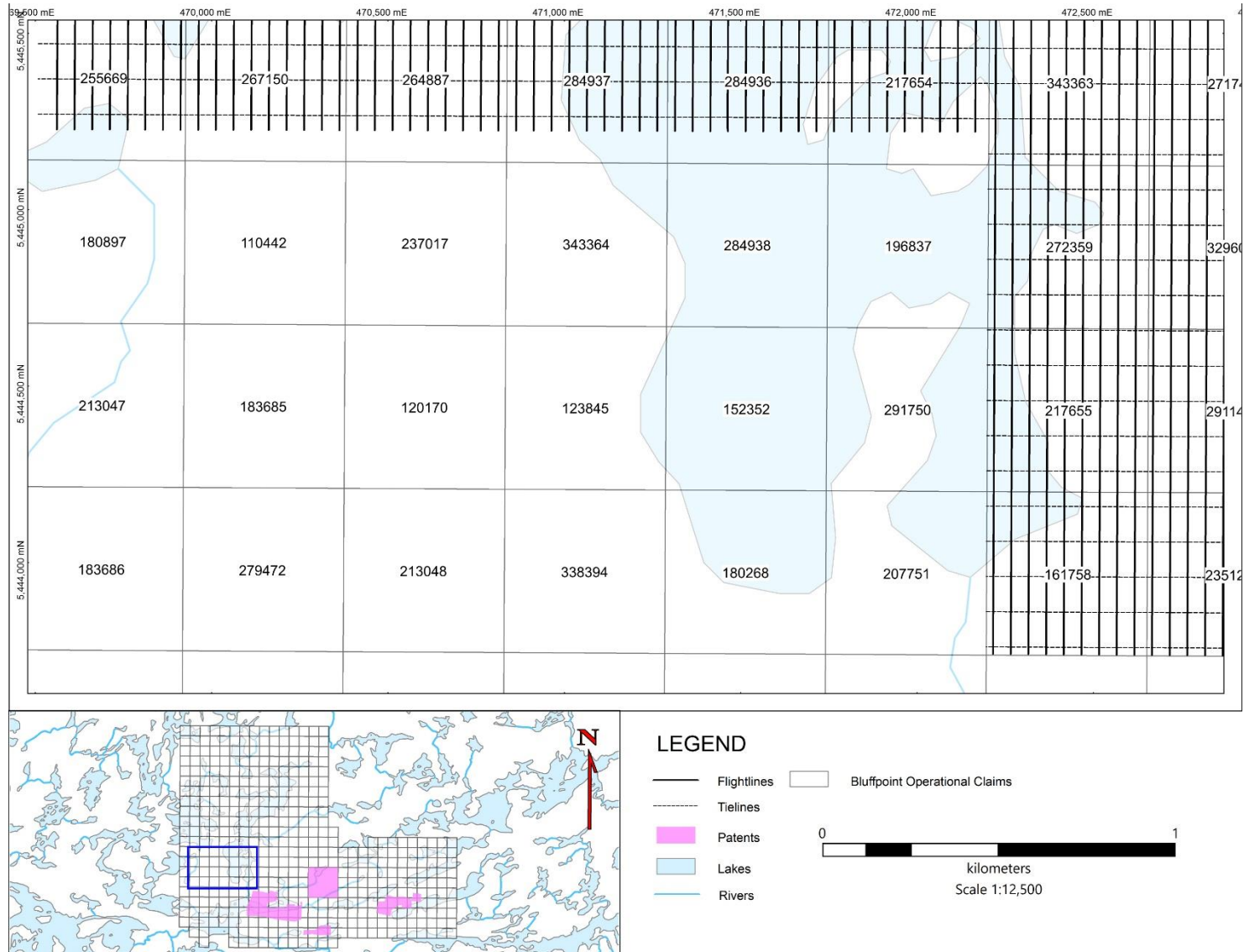


Figure 20: Bluffpoint Drone Survey Flight and Tie Lines. 7 of 8

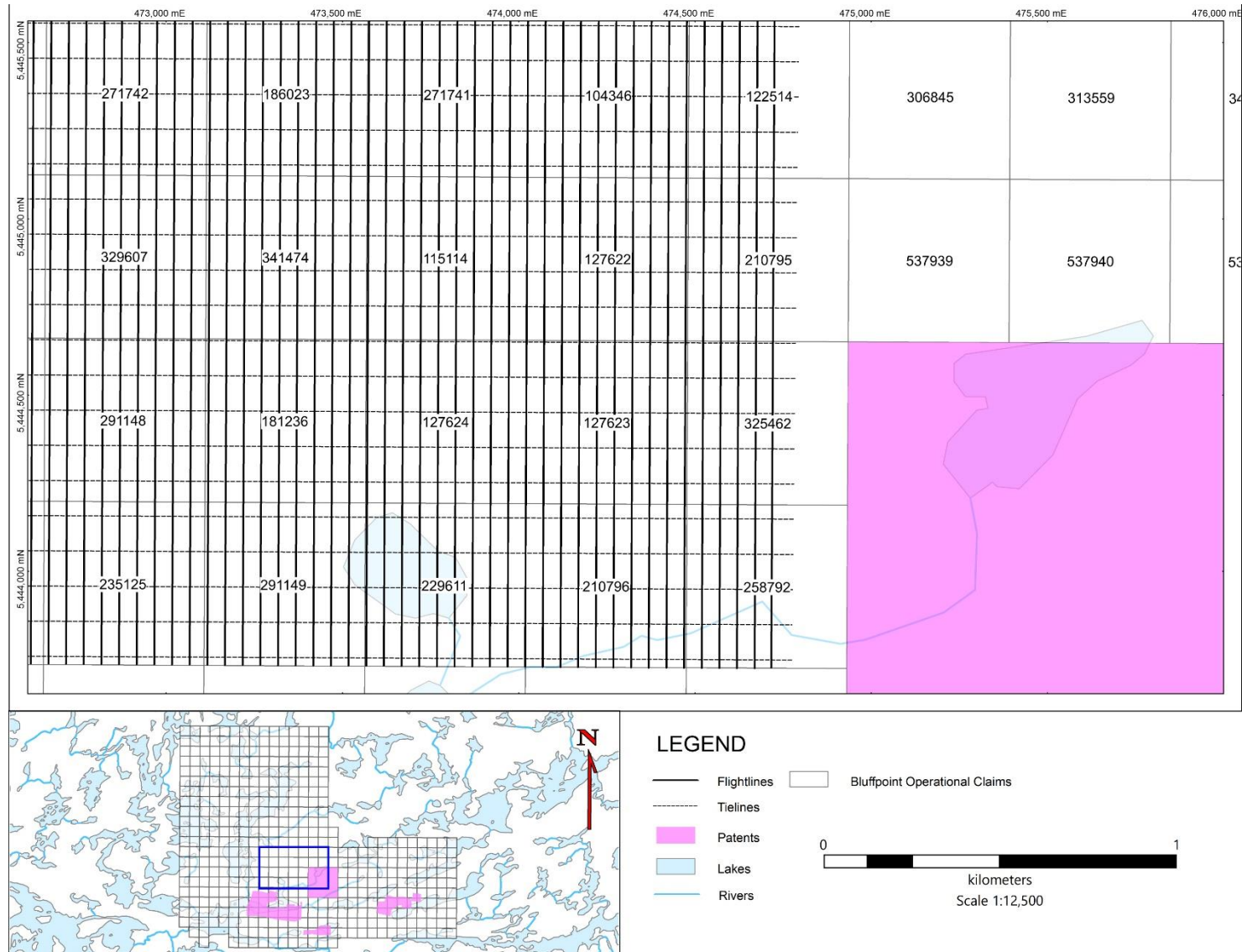


Figure 21: Bluffpoint Drone Survey Flight and Tie Lines. 8 of 8





## 10.1 Personnel

Field operations were supervised and all technical staff was provided by Fladgate and began with logistics and flight planning on September 19, 2022.

**Table 4 – Personnel Log**

Name	Working Title	Responsibilities	Dates on Project
Jordan Quinn	Project Geologist	Mobilization, Pilot, Drone route planning, Demobilization, Processing Geophysics/Map Creation, Report writing	September 19 - November 3, 2022; January 23 – February 13 2023
Adam Gilbert	Geologist	Mobilization, Assist in flight setup and operations, Demobilization	September 19 – November 3, 2022



## 11 Data Filtering and Processing

Raw aerial magnetometer data was collected at a rate of 10 Hz. Total field and GPS UTC time was recorded with each data point which enabled diurnal corrections to be applied during subsequent data processing. An example of the raw data required to carry out the filtering and processing steps is given in **Table 4**.

**Table 4 : Raw Geophysical Drone Data**

UTC Time	Total Field Mag (nT)	Lock Status	Signal Strength	UTM Easting	UTM Northing	GPS Altitude (m)	Laser Altimeter (m)
144803.7	55377.1	1	309	454931.73	5366619.93	333	8.66
144803.9	55424.3	1	143	454931.71	5366619.89	333	9.24
144804	55441.3	1	504	454931.7	5366619.86	334	9.48
144804.1	55454.9	1	233	454931.7	5366619.87	334	9.79
144804.2	55465.0	1	152	454931.7	5366619.86	334	10.26
144804.3	55471.9	1	208	454931.7	5366619.85	335	10.58

The raw data was then imported into Oasis Montaj Software to be further processed. The steps involved in filtering the data are as follows:

1. A filter was applied to the data based on the lock parameter of the magnetometer. All values that were recorded that did not have a lock value of 1 were removed. The datapoints which remained after this filter were correctly oriented with the Earth's magnetic field.
2. The second filtering step was based on the geometry of the survey area. Data outside the defined survey area were removed. This included data that was gathered while the UAV was in flight to and from the takeoff/landing site and data that was gathered as the UAV takes corners at the end of survey lines. This step reduced edge effects and insured that sampling points were evenly distributed throughout the survey area.
3. A filter was applied that removed any data that was not collected at the programmed survey elevation. This step removes any data that was collected while the UAV was on the ground in between surveys or while the UAV was rising to the programmed survey elevation.

After the data was filtered, the data was processed for interpretation through the following steps:

1. The Earth's magnetic field was subtracted from the total magnetic field reading of the magnetometer. The resulting residual magnetic field data represents the component of the field that is caused by the subsurface.
2. The residual magnetic data was then leveled and a reduction to pole calculation was performed. The resulting data was then used for various interpolations using Oasis Montaj's gridding and mapping functions.



## 12 Results

The results of the magnetic survey are presented as a total field magnetics map with and without interpretations. Larger versions of each map can be found in Appendix II – Maps.

From looking at the total field magnetics map, numerous underlying geologic features are seen which can be confirmed by comparing the mag map to the geologic map of the area. Firstly, major lithological contacts between the mafic metavolcanics and the granites as well as between the granites and the Diorites are easily visible. These lithological contacts have been labeled “C1” and “C2” respectively.

Secondly, the main north-south trending fault mapped in the area is represented as a line of magnetic lows to the west of the granites.

Finally, there are at least three linear northwest-southeast trending linear structures that can be seen in the mag map. These three structures have been labeled as offsets O1, O2, and O3. These features in the mag map are particularly interesting because offset “O2”, crosses directly over the Fingas showing which produced one of the highest-grade grab samples on the entire property. Closer attention to these offsetting linear structures may help in the discovery of more gold showings on the property.

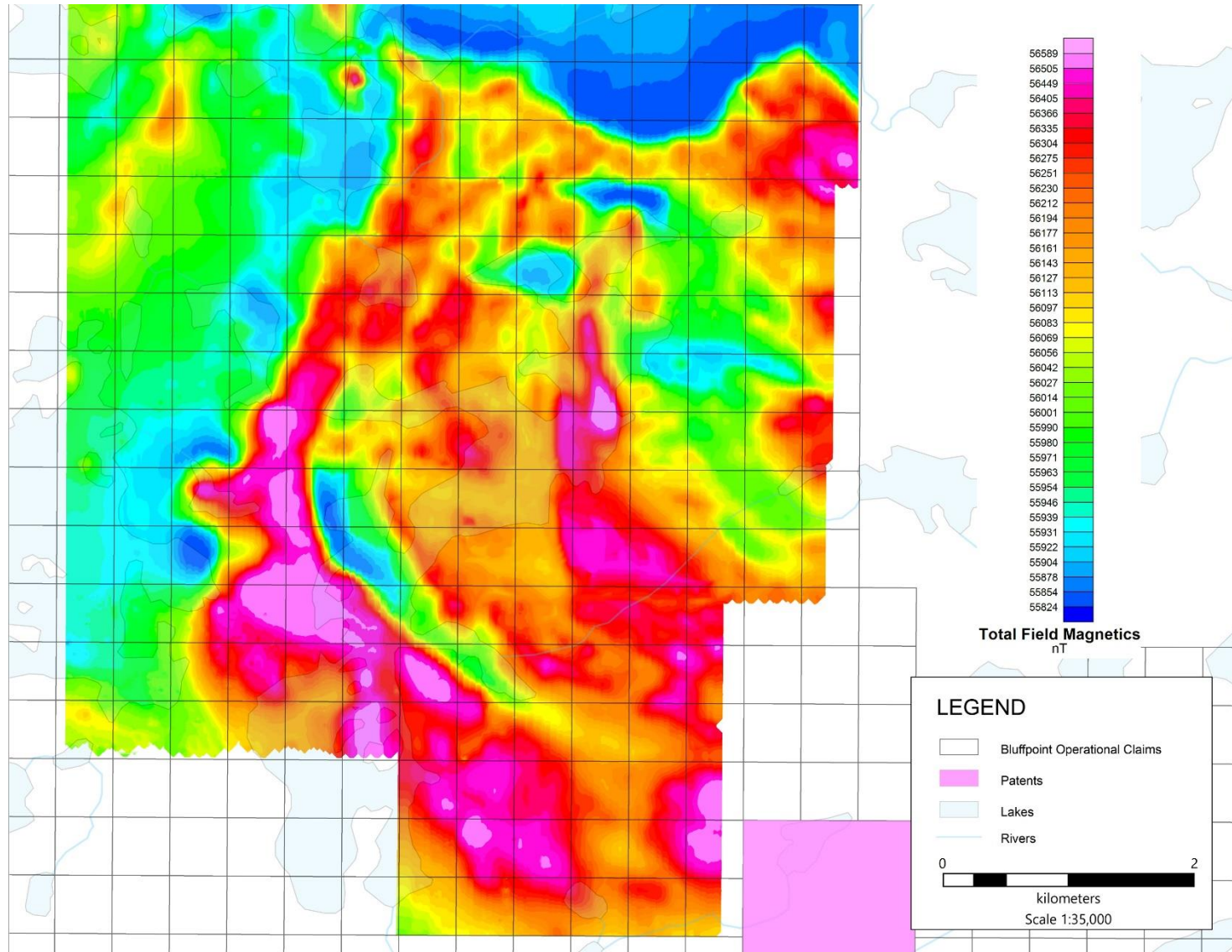


Figure 22: Bluffpoint Total Field Magnetics Map with no Interpretation

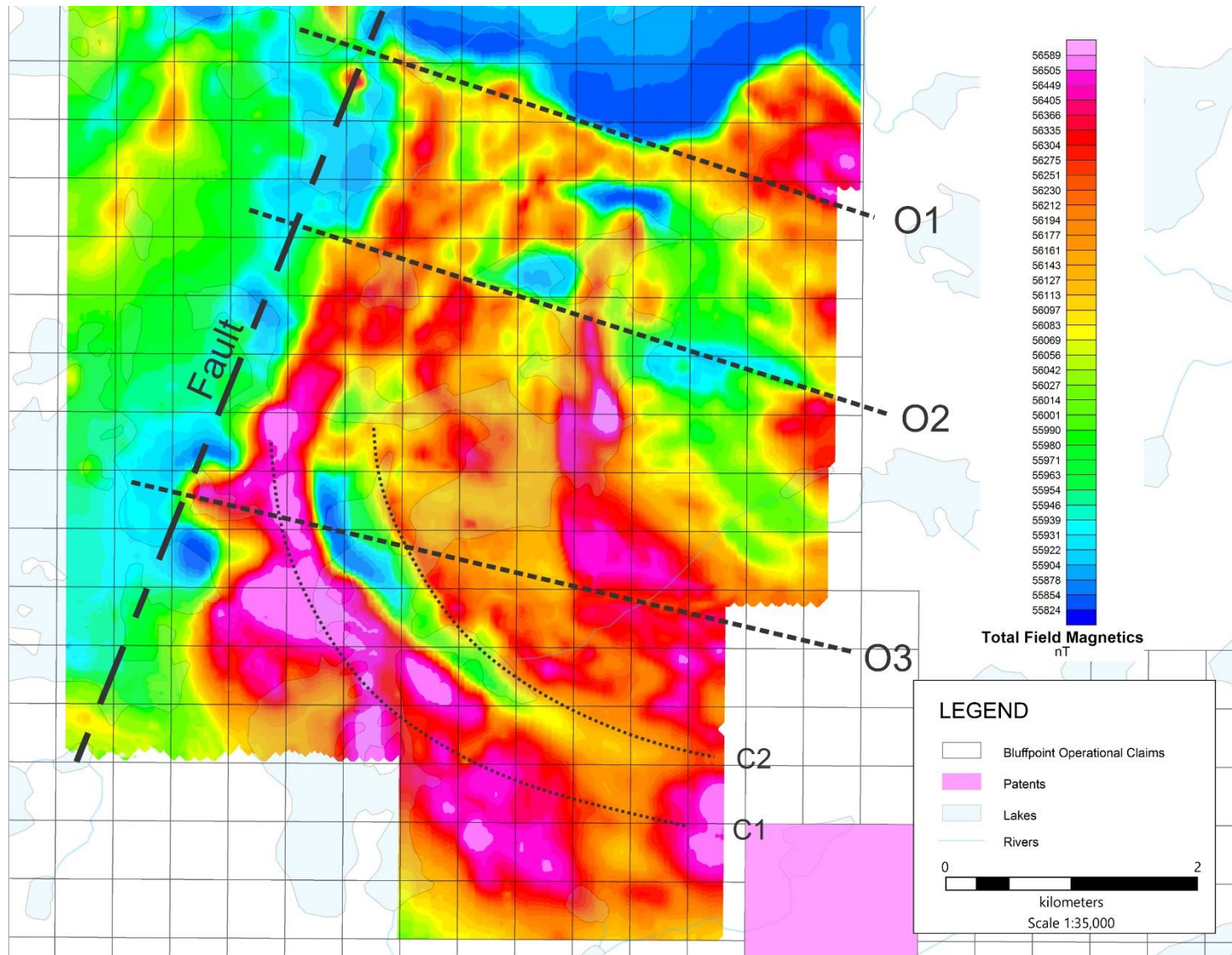


Figure 23: Bluffpoint Total Field Magnetics Map with Interpretation



## 13 Conclusions and Recommendations

The 2022 magnetic survey program was successful in mapping magnetic anomalies and underlying geologic trends and features within Kesselrun’s Bluffpoint project. Multiple geologic features previously mapped in the survey area were easily identifiable on the total field magnetic map.

One of the more interesting results from this program is the discovery of multiple northwest-southeast trending linear anomalies that have not been previously identified through other programs on the property. At least one of these magnetic features seems to line up with a gold showing giving way to the possibility of a direct relationship between gold mineralization and these features.

It is recommended that a more detailed ground magnetic survey in conjunction with a detailed mapping/trenching program be carried out on the property while paying specific attention to the offsetting “O” magnetic features to help confirm their origin and possible relationship to gold mineralization. Another aerial magnetic survey flown over the entirety of the property is also recommended.



## 14 References

- Armstrong, D. K., & Anastas, A. S. (1993). *Paleozoic Geology of the Orillia area, Southern Ontario*. Ontario Geological Survey.
- Breakhouse, G. (1988). *Project Number 88-7. Reconnaissance Investigations of Granitoid Rocks in the Wabigoon Subprovince, Summary of Field Work and Other Activities*. Ontario Geological Survey.
- Chivers, K. M. (1986). *Precambrian GEology, Brooks Bay Area, District of Kenora*. Map P.3075 Geological Series - Preliminary Map.
- Clark, G. (1991). *Evaluation of the Gold Mineralization of the Bluffpoint Property, Fall 1991*.
- Davis, D. W., & Edwards, G. R. (1990). *The Petrogenesis and Metallogenesis of the Atikwa-Lawrence Volcanic -Plutonic Terrain*.
- Dubé, B., & Gosselin, P. (2007). *Greenstone-Hosted Quartz-Carbonate Vein Deposits*.
- Edwards, G. (1983). *Geology of the Straw Lake Area, District of Kenora and Rainy River*.
- Escarrage, E., & Sheridan, K. (2011). *Phase 1 Exploration Program; Bluffpoint Lake Property*. Fladgate Exploration Consulting Corporation.
- Jaworski, K. (1990). *The Result of Geological Mapping on the Manitou Property. Assessment Report for Momestake Mineral Development Company*.
- MacPherson, J. (1992). *Report on Phase 1 Exploration Program, October 1992 on the David E. Sande Property. Assessment for Homestake Canada Ltd*.
- Ontario Geological Survey. (2011). *1:250 000 scale bedrock geology of Ontario*. Ontario Geological Survey.
- Rennie, D. W., Lambert, R. J., & Krutzmann, h. (2009). *Preliminary Assessment of the Hammond Reef Gold Project, Atikokan, Ontario, Canada*. Osisko Mining Corporation.
- Smith, P. (1993). *Precambrian Geology, Vista Lake Area*. Ontario Geological Survey.



## 15 Statements of Qualifications

### **Jordan Quinn, B.Sc., P.Geo.**

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### **CERTIFICATE OF THE AUTHOR**

I, **Jordan Quinn**, do hereby certify that:

1. I am an employee of Fladgate Exploration Consulting Corporation, the geological consulting firm tasked with this report.
2. I am a member in good standing of the Association of Professional Geoscientists of Ontario (APGO #3151).
3. I am a graduate of Lakehead University (Hons. B.Sc., 2014).
4. I have practiced geology for 7 years in a variety of settings, mostly in Northwestern Ontario, Canada. I have specific experience in Archean lode gold deposits in Ontario, mostly working as both a production and exploration geologist at various gold mines throughout Ontario.
5. I have no previous involvement with the property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their website accessible by the public.

Effective Date: February 13, 2023

Date of signing: February 13, 2023

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Jordan Quinn, H.B.Sc., P.Geo. (APGO #3151)



## 16 Appendix I – Instrument Specifications

### GEM GSMP-35UA: Ultra Light-Weight Potassium Magnetometer

#### Magnetometer Specifications

Sensitivity: 0.0002 nT @ 1 Hz

Resolution: 0.0001 nT

Absolute Accuracy: +/- 0.1 nT

Heading Error: + / – 0.05 nT

Dynamic Range: 15,000 to 120,000 nT

Gradient Tolerance: 50,000 nT/m

Sampling Intervals: 1, 2, 5, 10, 20 Hz

Operating Temperature: -40°C to +55°C

#### Orientation

Sensor Angle: optimum angle 35° between sensor head axis & field vector.

Proper Orientation: 10° to 80° & 100° to 170

Heading Error: +/- 0.05 nT between 10° to 80° and 360° full rotation about axis.

#### Environmental

Operating Temperature: -40°C to +55°C

Storage Temperature: -70°C to +55°C

Humidity: 0 to 100%, splashproof

#### Dimensions & Weight

Sensor: 161mm x 64mm (external dia) with 2m cabling ; 0.43 kg

Electronics Box: 236mm x 56mm x 39mm; 0.46 kg

Option 1 cabling; .125kg

Option 3 light weight battery; .250kg

#### Power

Power Supply: 18 to 32 V DC

Power Requirements: approx. 50 W at start up, dropping to 12 W after warm-up

Power Consumption: 12 W typical at 20°C Warm-up Time: <15 minutes at -40°C

#### Outputs

20 Hz RS-232 output with comprehensive Windows Personal Computer (PC) software for data acquisition and display.

Outputs UTC time, magnetic field, lock indication, heater, field reversal, GPS position (latitude, longitude altitude, number of satellites)

**Components**

Sensor, pre-amplifier box, 2m sensor /pre-amplifier cable (optional cable 3-5m), manual & shipping case

## Matrice 600

### Structure

Diagonal Wheelbase: 1133 mm

Aircraft Dimensions: 1668 mm x 1518 mm x 759 mm (Propellers, frame arms and GPS mount unfolded)

640 mm x 582 mm x 623 mm (Frame arms and GPS mount folded)

Package Dimensions : 620 mm x 320 mm x 505 mm

Intelligent Flight Battery Quantity: 6

Weight (with six TB47S batteries): 9.1 kg

Weight (with six TB48S batteries): 9.6 kg

Max Takeoff Weight: 15.1 kg

### Performance

Hovering Accuracy (P-Mode, with GPS) Vertical:  $\pm 0.5$  m, Horizontal:  $\pm 1.5$  m

Max Angular Velocity: Pitch:  $300^\circ/s$ , Yaw:  $150^\circ/s$

Max Pitch Angle:  $25^\circ$

Max Speed of Ascent: 5 m/s

Max Speed of Descent: 3 m/s

Max Wind Resistance: 8 m/s

Max Flight Altitude above Sea Level: 2500 m

Max Speed: 18 m/s (No wind)

Hovering Time (with six TB47S batteries)\* No payload: 35 min, 6 kg payload: 16 min

Hovering Time (with six TB48S batteries)\* No payload: 40 min, 5.5 kg payload: 18 min

\* The hovering time is based on flying at 10 m above sea level in a no-wind environment and landing with 10% battery level.

### Remote Controller

Operating Frequency:

920.6 MHz to 928 MHz (Japan)

5.725 GHz to 5.825 GHz

2.400 GHz to 2.483 GHz

Max Transmission Distance (unobstructed, free of interference) :

FCC Compliant: 3.1 miles (5 km)

CE Compliant: 2.1 miles (3.5 km)

EIRP:

10 dBm @ 900 M/li>

13 dBm @ 5.8 G

20 dBm @ 2.4 G

Video Output Port: HDMI, SDI, USB

Dual Users Capability: Master-and-Slave control  
Mobile Device Holder: Supports smartphones and tablets  
Output Power: 9 W  
Operating Temperature: 14° to 104° F (-10° to 40° C)  
Storage Temperature:  
Less than 3 months: -4° to 113° F (-20° to 45° C)  
More than 3 months: 72° to 82° F (22° to 28° C)

Charge Temperature: 32° to 104° F (0° to 40° C)  
Built-in Battery: 6000 mAh, 2S LiP  
Max Tablet Width: 170 mm

### **Propulsion System**

Motor Model: DJI 6010  
Propeller Model: DJI 2170

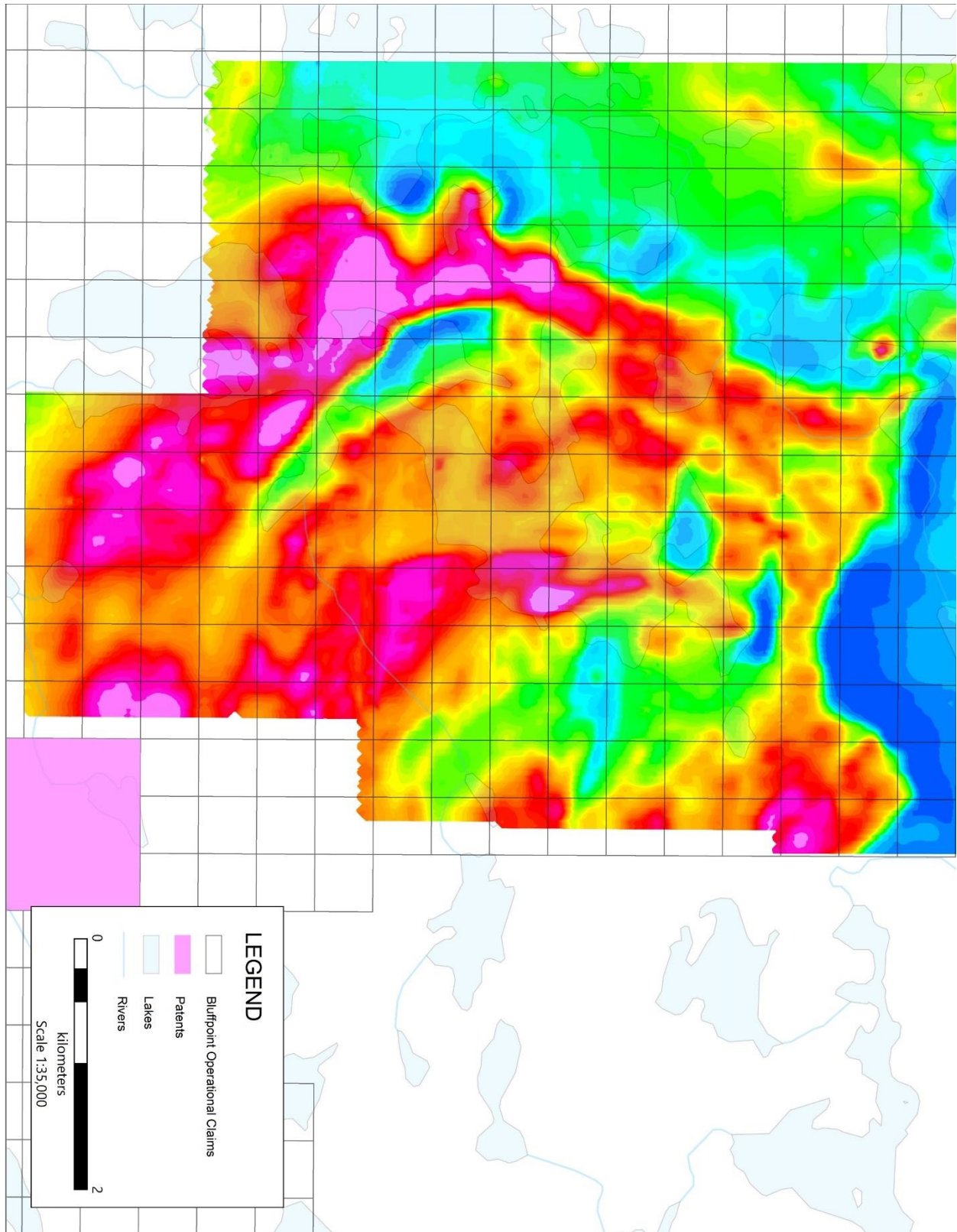
### **Battery**

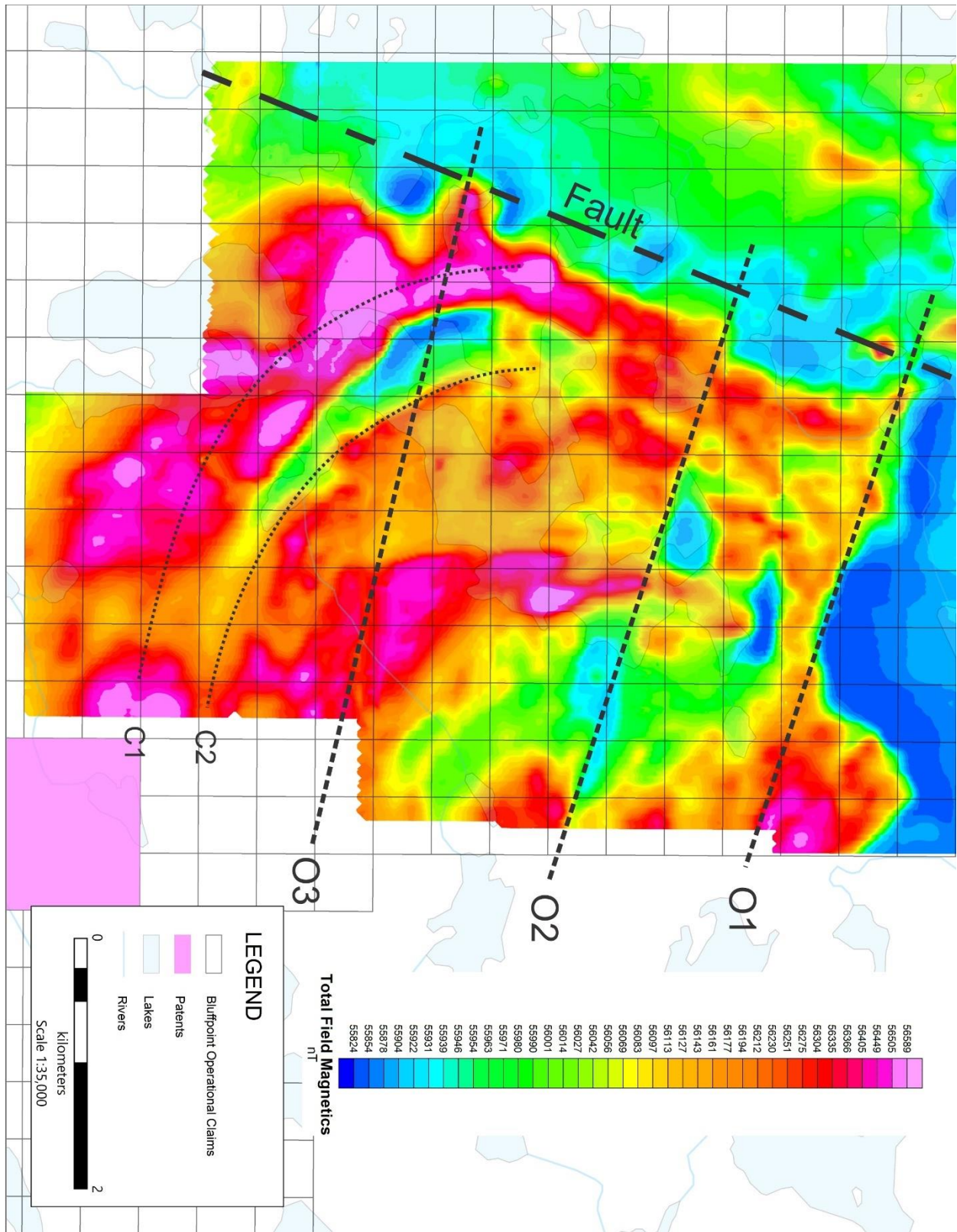
Model: TB48S  
Capacity: 5700 mAh  
Voltage: 22.8 V  
Type: LiPo 6S  
Energy: 129.96 Wh  
Net Weight: 680 g  
Operating Temperature: 14° to 104° F (-10° to 40° C)  
Storage Temperature: Less than 3 months: -4° to 113° F (-20° to 45° C) More than 3 months: 72° to 82° F (22° to 28° C)  
Charge Temperature: 41° to 104° F (5° to 40° C)  
Max Charging Power: 180 W

### **Charger**

Model: MC6S600  
Voltage: Output 26.1 V  
Power Rating: 100 W

## 17 Appendix II – Maps





## 18 Appendix III – Program Expenditures and Cost Per Claim

	Date From MM/DD/YYYY	Date To MM/DD/YYYY	Item	Rate	Per Unit	Units	subtotal
<b>Data Collection</b>	9/19/2022	11/3/2022	Truck Rental	\$2,000	month	2	\$4,000
			Mileage	\$0.70	km	3293	\$2,305
			Project Manager	\$700	day	34.5	\$24,150
			Assistant	\$600	day	35	\$21,000
			Accomodation	\$5,000	month	2	\$10,000
			Line kms	\$200	km	1215	\$243,000
			Food	\$30	day	68	\$2,040
			Lift Rental (Sept)	\$2,200	month	1	\$2,200
			Lift Rental (Oct)	\$1,730	month	1	\$1,730
						<i>subtotal</i>	<i>\$310,425.00</i>
<b>Processing &amp; Report</b>	01/23/2023	02/03/2023	processing	\$800	day	10	\$8,000
	02/03/2023	02/13/2023	report writing	\$700	day	7	\$4,900
						<i>subtotal</i>	<i>\$12,900</i>
						<b>TOTAL</b>	<b>\$323,325.00</b>

Claim #	Cost Per Claim (\$)
101317	1703
101692	1703
101712	1061
101713	1703
104245	1251
104346	1703
110811	1703
115114	1703
116180	1703
116181	1703
116195	1703
116727	1703
116728	1703
117808	1703
117820	1703
121364	1703

Claim #	Cost Per Claim (\$)
122343	1703
122344	1703
122514	1251
122370	1703
123691	1703
123843	1703
123844	1703
124093	1703
124371	1703
124377	1703
127622	1703
127623	1703
127624	1703
129494	1703
135734	1703
136095	1703
136096	1703
141635	1703
148814	1703
151701	1703
152367	1703
159470	1703
160167	1703
160168	1703
161491	1703
161492	96
161758	1703
164552	1703
166188	1703
166980	1061
168958	1703
168980	1703
178078	1703
179009	1703
180338	1703
180339	1703
181236	1703
181771	1703
181782	1703
181783	1703



Claim #	Cost Per Claim (\$)
181784	1703
186023	1703
187560	1703
192187	1061
192188	1703
194947	1703
196243	1703
196244	1703
196245	1703
196246	1703
196247	1703
196836	1703
196850	1703
204291	1703
204292	1061
204870	1061
204871	1703
205640	1703
206285	1703
206286	1703
207871	1703
210795	1251
210796	1703
210928	1703
212275	1703
212276	1703
212277	1703
212278	1703
214911	1703
214912	1703
214913	1703
214914	1703
215194	1703
215643	1703
215671	1703
215674	1703
215675	1251
216998	1703
217653	1703
217654	1703

Claim #	Cost Per Claim (\$)
217655	1703
229472	1703
229611	1703
232191	1703
233668	1703
233695	1703
233697	1703
233851	1703
235125	1703
235365	1703
235702	1703
242181	1703
244816	1703
244817	1703
248340	1703
249680	1703
252185	1061
252679	1703
254850	1703
255669	1703
257051	1703
257929	1703
258792	1251
261564	1703
262873	1703
262874	1703
264195	1703
264887	1703
264898	1703
264899	1703
267149	1703
267150	1703
269538	1703
270328	1703
270329	1703
270330	1703
270864	1703
271137	1703
271678	1703
271741	1703

<b>Claim #</b>	<b>Cost Per Claim (\$)</b>
271742	1703
272357	1703
272358	1703
272359	1703
272872	1703
273779	1703
278737	1703
280683	1703
280684	1703
282964	1703
282965	1703
282966	1703
284936	1703
284937	1703
284949	1703
284950	1703
287973	1703
289278	1703
289772	1703
289773	1703
289774	1703
290309	1703
290310	1703
290311	1703
291092	1703
291148	1703
291149	1703
291435	1703
291436	1703
291437	1703
291766	1703
296827	1703
298912	1703
301422	1703
303551	1703
312426	1703
314904	1061
314905	1703
314906	1703
314907	1703

<b>Claim #</b>	<b>Cost Per Claim (\$)</b>
<b>318064</b>	1703
<b>320987</b>	1703
<b>325462</b>	1251
<b>327503</b>	1703
<b>329528</b>	1703
<b>329607</b>	1703
<b>330843</b>	1703
<b>339655</b>	1703
<b>339656</b>	1703
<b>340552</b>	1703
<b>340553</b>	1703
<b>341361</b>	1703
<b>341474</b>	1703
<b>341899</b>	36
<b>342317</b>	1703
<b>342708</b>	1703
<b>343363</b>	1703
<b>343380</b>	1703
<b>343381</b>	1703
<b>343386</b>	1703
<b>TOTAL</b>	<b>323,325</b>