Kimberlite Indicator Mineral Results from Reconnaissance Till Sampling in the East Peace River Region (NTS 84C/East), Alberta

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Abstract

Many kimberlites in the Peace River District contain economic diamond deposits, which have been explored by several companies. The shallow depth of kimberlites in this area is a potential target for economic diamond deposits. A reconnaissance till sampling program was conducted to determine if any kimberlite indicator minerals (KIMs) were present in the till deposits. The KIMs are usually found in kimberlite placer deposits, which are the source material for kimberlites. The goal of the program was to locate potential kimberlites in the Peace River District and to determine if any KIMs were present in the till deposits.

Introduction & Background

The Peace River District contains several kimberlite deposits, which are potential targets for economic diamond deposits. The shallow depth of kimberlites in this area is a potential target for economic diamond deposits. A reconnaissance till sampling program was conducted to determine if any KIMs were present in the till deposits. The KIMs are usually found in kimberlite placer deposits, which are the source material for kimberlites. The goal of the program was to locate potential kimberlites in the Peace River District and to determine if any KIMs were present in the till deposits.

Methods

The reconnaissance till sampling program was conducted in the Peace River District, using a grid of 1-km squares to cover the area. The till samples were collected from the surface to a maximum depth of 1 m. The till samples were then sieved to a maximum particle size of 1 mm. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples.

Results

The KIMs were identified in the till samples collected from the Peace River District. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples.

KIM Composition

The KIMs were identified in the till samples collected from the Peace River District. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples.

Microprobe Analysis

The KIMs were identified in the till samples collected from the Peace River District. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples. The KIMs were identified using X-ray fluorescence analysis (XRF) to determine the chemical composition of the till samples.

References


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