**GeoFile 2012-05**

# Using Regionated KML Files to Speed up the Display of a Large Number of Regional Geochemical Survey Sites in British Columbia

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## Suggested Citation:

## Contents

- This document
- Regionated KML files compressed in *GF2012-05.zip*          7,815 KB
- http://webmap.em.gov.bc.ca/mapplace/kml/rgs/rgs_sites_reg/doc.kml
     (Note: add this URL to Google Earth® as a Network Link)

## Description

To speed up the display of over 60,000 Regional Geochemical Survey (RGS) sites on Google Earth®, regionated KML files have been produced. In this release, the data is extracted from the RGS database and the sample sites are ranked or scored based on copper content. Due to the large number of sample sites, a single KML file containing all the sites would be too big both for displaying on Google Earth® or as a network link from a website. The regionation technique allows the creation of thousands of inter-linked small KML files (file sizes 9 KB or less in this case), and only fetches and displays a small number of KML files at a given viewing altitude, which significantly improves the

performance of loading and displaying the sample sites. When zoomed out (or viewing the sites at a higher altitude on Google Earth®), only the higher ranked or scored sites are displayed. When zoomed in or viewing an area at a lower altitude, lower scored sites (i.e., with lower copper contents) start to appear as well. Further performance improvement is achieved through minimal packaging of essential data in the KML files with a link (View Report) on the balloon to a detailed report of geochemical analytical data available on the MapPlace web service (Figure 1).

To display the regionated KML files on Google Earth®, unzip *GF2012-05.zip* and open doc.kml in folder *rgs_sites_reg*. Alternatively, a network link can be added to Google Earth®, with link to http://webmap.em.gov.bc.ca/mapplace/kml/rgs/rgs_sites_reg/doc.kml.



Figure 1. RGS sites displayed on Google Earth®.

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