

## Re: KRS – artificial weathering

**Source:** <http://sci.tech–archive.net/Archive/sci.archaeology/2004–09/2455.html>

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**From:** zolota (zolota3\_at\_REMOVEshaw.ca)

**Date:** 09/20/04

Date: Mon, 20 Sep 2004 06:45:44 GMT

"Daryl Krupa" <icycalmca@yahoo.com> wrote in message  
news:c70365ef.0409191839.57b928de@posting.google.com...

> "zolota" <zolota3@REMOVEshaw.ca> wrote in message  
> news:<YX92d.441656\$gE.137762@pd7tw3no>...

>

> <snip>

>

>> *As I said before, sulphuric acid cannot eat a calcite crystal.*

>> *I also assume that you know that.*

> <snip>

>

> *Yes; I was thinking about protecting the calcite from the*

> *effects of the sulfuric acid sufficiently to avoid*

> *the possibility of forming a gypsum layer,*

> *and so avoid detection of application*

> *of the sulfuric acid.*

True, but agogle on minnesota, groundwater, so4 gives over 2,300 hits and i  
quote one:

Sulfate (SO<sub>4</sub>) occurs naturally in most of Minnesota's groundwater, with  
higher levels common in the western part of the state. At high levels,  
sulfate can give water a bitter or astringent taste and can have laxative  
effects. This brochure provides a basic discussion of sulfate in well water  
and discusses action you can take to minimize it effects.

<http://www.health.state.mn.us/divs/eh/wells/sulfate.html>

In other words, finding a calcite crystal with a gypsum surface is entirely  
logical in Kensington so could anyone say that it's presence is  
questionable? They could say that only if they have tested other local rocks  
that contain calcite and found gypsum to be absent. By the same reasoning i  
would expect the same depth or nature of sulphate in calcite on both the  
ancient back of the KRS and the inside of the letters.

>

>> *A good page that covers several of the topics is available.*

>> *Note the coment about oxidation of biotite mica.*

>>

>> <http://gpc.edu/~pgore/geology/geo101/weather.htm>

>

> *Yes, I agree, good background, and I've noted that page already.*

> *There is also this one, which Hmmm, I wonder, might have*

> *inspired Wolter to test slate tombstones instead of marble ones*

> *(marble, at least, is similar in composition to the calcite*

> *on / in the KRS):*

>

> <http://www.uwgb.edu/dutchs/EarthSC202Slides/soilslid.htm>

>

>> *Than you, thank you very much.*

>

> <http://homepages.compuserve.de/thkoern/elvis.gif>

>

> *Roll with them Stones . . .*

>

> <http://www.omelete.com.br/imagens/televisao/news/simpsons/rock.jpg>

>

> [http://figures.nohomers.net/Customs/Custom\\_Bart\\_as\\_Elvis.JPG](http://figures.nohomers.net/Customs/Custom_Bart_as_Elvis.JPG)

>

> *Daryl Krupa*

> *(still playing D.A., still on the case, awaiting deposition)*

Of gypsum?

Z