Geotechnical Site Investigation for a Vault construction at Matjiesfontein.

C.J.S. Fourie Senior Research Geophysicist National Research Environment (NRE)

CSIR, Pretoria

L. Croukamp Senior engineering Geologist Council for Geoscience (CGS) Pretoria

<u>Third Space Geodesy Workshop</u> <u>16 to 18 March 2009</u> <u>Matjiesfontein</u>

CSIR

our future through science

Criteria for Vault:

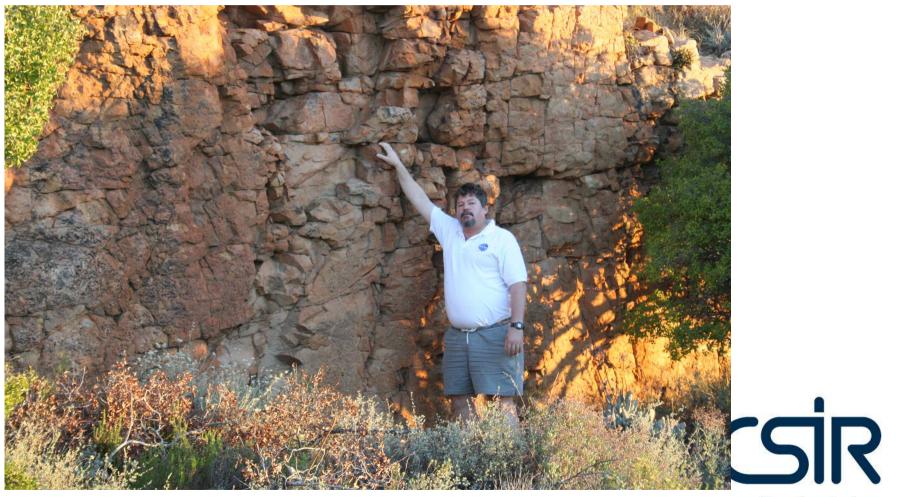
- •Solid Bedrock.
- •Temperature Regulated.
- •Water tight.
- •Shield from Wind Vibrations.



<u>Criteria - Solid Bedrock – Fold Axis</u>



<u>Criteria - Solid Bedrock</u>



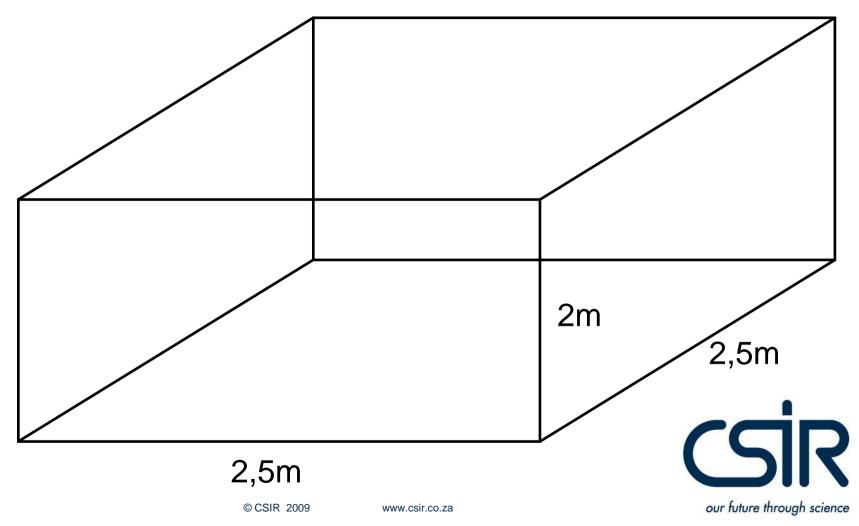
© CSIR 2009 www.csir.co.za

our future through science

<u>Criteria - Solid Bedrock</u>



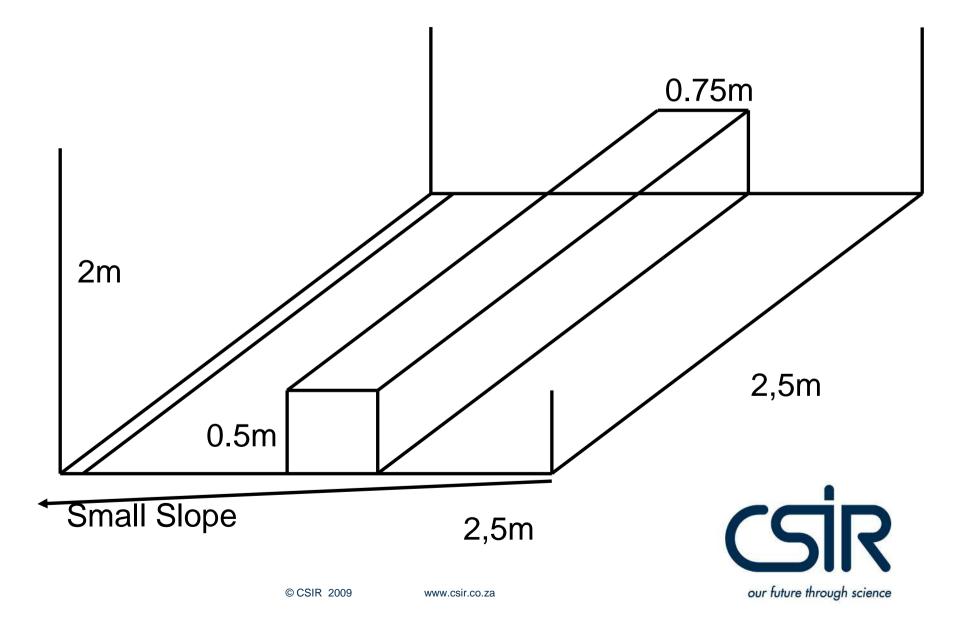
<u>Criteria - Solid Bedrock</u>

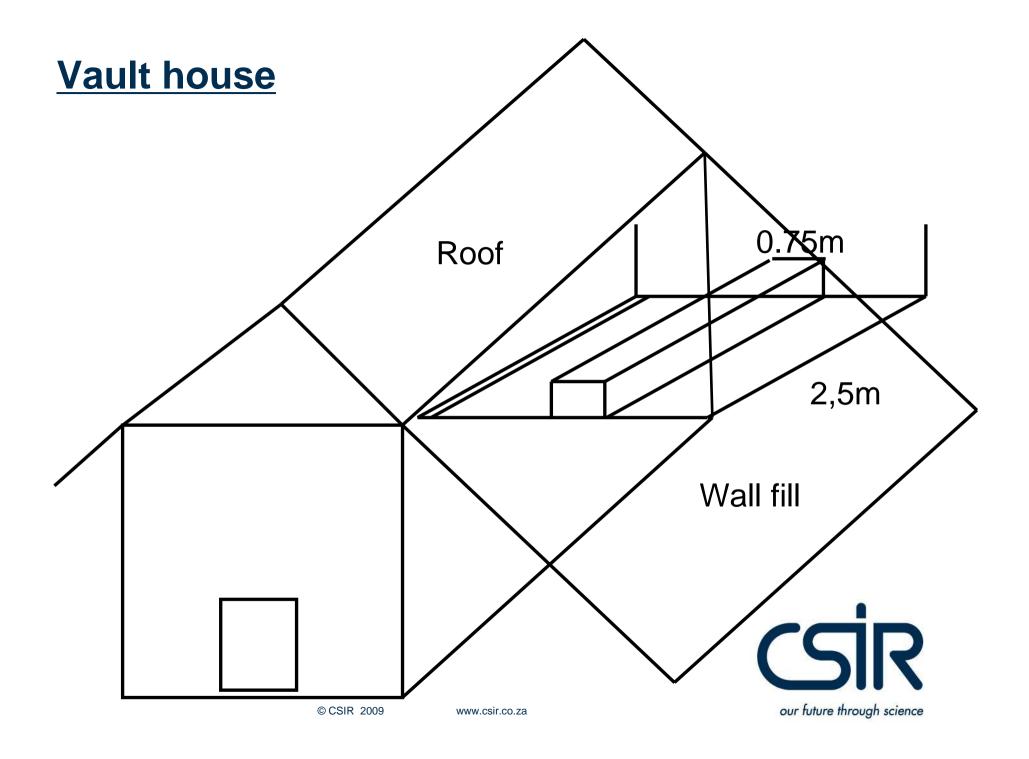


Objective: Location of permanent vault for LCR Gravity meter and Seismograph. Criteria - Solid Bedrock



<u>Criteria - Solid Bedrock</u>





Thank you.



our future through science