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Geology Handbook Core logging 101 Core logging is the systematic recording and measuring of as much information as possible/required to determine the lithology (rock types), mineralogy, potential geological history, structure and alteration zones through a tiny piece of cylindrical rock drilled and removed from a potential mineral deposit.

The following items are counted during core logging: Joints: a total count of all joints in the domain. Foliation breaks: a total count of all open breaks along foliation. The count for each run is written on the core in that order: J/FOL Natural rubble zone (RZ) „allocated“ joints are added to the joints count (assuming ~4 joints/10cm) .

For many projects in which SRK has been involved, one of the first tasks is to review the geotechnical database proceeding from exploration-stage geotechnical core logging, and check for errors in data collection. Typical errors in core logging relate to the rock quality designation estimation for example.

Sabina BackRiver GTCoreLoggingManual

Geotechnical Core Logging

Multi-Sensor Core Logger (MSCL-S) - Geotek Ltd.

GEOTECHNICAL CORE LOGGING, SOIL PROFILING AND CHIP LOGGING

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Typical Errors in Geotechnical Core Logging | SRK Consulting

Geotechnical Manual. 2017 Geotechnical Manual

Engineering Geologists was to prepare a guide for core logging for

rock engineering purposes in South Africa. For such a guideto be generally accepted it should fulfil the following requirements: (a) It should be sufficiently detailed to ensure thatthe resulting core log contains enough information

The logger must define strata that have significance to designers and contractors who will use the core log information. Designers and contractors are mainly interested in the primary and secondary soil or rock constituent and whether ground water is present.

Geotechnical Manual: Soil and Bedrock Logging

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The following steps are suggested during the core logging process: Clean the core of drilling fluids or mud. Mark major structures, proposed point load testing locations, and depths (every 1-2 metres)... Photograph the core in the splits (if using triple tube method) with a scale placed in... ..

4. Core Logging 4.1 Handling of Core After the core has been recovered from the corehole and the core barrel has been opened, the core should be placed in a core box. The top of the core should be placed at the back left corner of the core box, and the remaining core placed to the right of the preceding section (see Figure 8).

A guide to core logging for rock engineering

OF GEOTECHNICAL PARAMETERS THROUGH CORE LOGGING Depending on the deposit type, the interpretation of certain aspects can substantially affect the interpretation of the rockmass classification values. Figure 2 summarizes typical practices during core logging which can adversely affect rockmass parameter de-termi-

nations.

Geotechnical Core Logging - Data collected during drill programs from early stages of a project often forms the basis for project design. Geotechnical core logging is usually a very detail-oriented, slow, and rather tedious process that requires long periods of attention from the personnel doing the logging.

Notes or rock core logging for engineering purposes

Logging Core At some stage in your engineering geological career you are going to have to log core. Without good core logging any foundation design is worthless and the onus is on the engineering geologist to produce high quality logs on which the engineer can base his design. So how do you go about it?

Geotechnical Core Logging

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Establishing a Site Specific Mining Geotechnical Logging Atlas

The logging depth interval over which the geotechnical parameters of the core are recorded may be project specific or dependant on the level of detail required or the scale of the features being logged.

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A guide to core logging for rock engineering

geology core logging and provides examples and instructions pertaining to format, descriptive data, and techniques; procedures for working with drillers to obtain the best data; caring for recovered core; and water testing in drill holes. The chapter also provides a reference for experienced loggers to improve their techniques and train others.

GUIDELINES FOR CORE LOGGING

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Typical Errors in Geotechnical Core Logging | SRK Consulting

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GEOTECHNICAL CORE LOGGING, SOIL PROFILING AND CHIP LOGGING

Continuous core logging means exactly what it says: a continuous, automated and uninterrupted process. Rock-friendly systems. Recently, Geotek has been supplying more MSCL systems to users with unlined rock cores. To overcome the problems of fractured core, fibreglass boats are used to carry core through the sensors.

Multi-Sensor Core Logger (MSCL-S) - Geotek Ltd.

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