

TRAINING COURSE SUMMARY SHEET



HARDDISK:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan (1):Trainig_capacitybuilding:Summary sheet 2 1
Interpretation of Data MH.docx

Course title:		<i>Course no: 2.1</i>	
Hydrogeology II			
Interpretation of Data		<i>Date prepared: 20 June 2012</i>	
20			
Training purpose	To enable hydrologist, chemists and data managers to use the data collected during geo-physical studies, lab data (chemical data analyzed in labs), field data collected, hydro meteorological data collected and other data sets that are generated or made available. The data sets will be connected to mapping if GPS data are available and interpreted with the use GIS software and otherwise statistical software utilized.		
Target group	Education level (degree/technicians etc): Bachelor degree with understanding for statistical data.	Experts/national planners/provincial/district Experts and national planners; simplified version can be made available for provincial and district level	
Course details:	Course language(s) English / Dari		
	Duration(days); 2 Introductory level	No. participants/ course: Depends on computers available, preferably not more then 10 persons	Theoretical /practical/training? 1 day will be theoretical and 1 day practical
	Planned course location(s) Kabul/ Mazar/ Maimaina	Responsible presenter	Handouts to be prepared by:
Summary syllabus	<p>The participants will have to understand and prepare a process how to handle data. How we collect the data, the correct data, minimal amount of data and how to store hardcopies and softcopies of data in the computer. The organization must have a process how to handle data that will be applied and dealt with in a consistent manner. This is the very first principle with data collection besides know what to collect, have the right instrumentation, consistently collect the data, store the data and enter the data.</p> <p>The data have then to be transferred into information that will have to lead to understanding, knowledge and finally wisdom. Data on themselves do not lead anywhere unless being analyzed with the correct tools. Data collection is important but meaningless till we start the analyzing in a meaningful manner.</p> <p>Software available from commercial sources like Schlumberger for storing and analyzing data from water samples, SPSS software especially for data in the social field, specialized statistical software like MiniTab and others for analyzing data sets and GIS software that with additional software can analyze data and can be viewed as maps and other formats. Excel has limited capabilities as statistical software but has some useful features.</p> <p>How to use Excel to store data sets and make them available later for use in a database.</p> <p>Practical's: to try out the various software with simple data sets obtained during day 1 and enter data and produce a datalog, interpret water chemistry data and produce a piper diagram, enter a data set with GPS data and import in GIS and produce a map of the data in one district. The data printed are being analyzed by the participants and conclusions produced that could lead to appropriate decision making if to make wells in the selected district based on the data obtained by the participants, the CSO data, JMP data and the mortality study 2011 of the MoPH.</p> <p>(prepared by responsible officer)</p>		
Training equipment required	Equipment that must made available for course: Computers with GIS software and statistical software, minimum will be Excel for the statistical part and ArcView minimum to show the GIS capabilities, otherwise Quantum GIS (Free software)		

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Training material	<p>Existing material that can be used and from where: Data sets obtained from DACAAR on wells, data logs and chemical data from well water, JMP (WHO/UNICEF) and Mortality Data (MoPH) and CSO office of Afghanistan and other data sets as brought by the participants.</p> <p>Material that needs to be developed or purchased and by whom: Appropriate materials will have to be prepared.</p>
Field/practical training.	<p>Preparations needed, responsible officer(s) Possibly a consultant as the software will have to be tailored to the local needs, capacities and capabilities.</p>
Prepared by	<p>Prepared by: MH</p>