

## Hydrogeological Survey in Faryab - Afghanistan

### TRAINING COURSE SUMMARY SHEET

**NORPLAN** 

Macintosh HD3:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan:Training\_capacitybuilding:Course  
1.10\_Well\_Construction\_Juniors\_Students:Summary sheet 1.10 Well\_Construct\_TEST\_Pumping\_Students\_Hassan.docx

<b>Course title:</b>		<i>Course no: 1.10</i>	
<b>Well Construction and Pumping Test</b>		<i>Date prepared: January 2014</i>	
<b>Training purpose</b>	To train Kabul and Polytechnic universities students, MRRD and AGS staffs for enhancing capacity building regarding construction of well, cleaning and development of well, pumping test and pumping test field data interpretation.		
<b>Target group</b>	Universities students, junior professional staff / government WASH sector staffs	People for government, NGOs and universities	
<b>Course details:</b>	Course language(s) Dari		
	Duration (days); 5 days	No. participants: 30	Theoretical /practical/training? Theoretical and practical
	Planned course location(s) Kabul, 25 <sup>th</sup> Jan 2014	Responsible presenter: Hassan, DACAAR and Prof. Eqrar	Handouts to be prepared by: DACAAR
<b>Summary syllabus</b>	Evaluation of drilling methods, rotary and percussion drilling, Main steps in well construction, site selection for drilling of well, ground water resource evaluation, Well hydraulic Analysis, Ground water flow, hydraulic conductivity, porosity, Darcy Law, Well pumping tests, well design, measurement instruments, Purposes of well development, methods and procedures for pumping tests, back washing Collection and analysis of pumping test data		
<b>Training equipment required</b>	Equipment that must made available for course: GPS, pH /Conductivity meter, Turbidity test kit, CTD Diver, Water level indicator, well cleaned equipment and pumping test equipment		
<b>Training material</b>	Existing material that can be used and from where: All training material prepared by DACAAR and is available. ( also in Dari		
<b>Field/practical training.</b>	Preparations needed, responsible officer(s) NORPLAN will organize the practical work at MRRD office and M. Hassan and Ah-Jawid will responsible to train the course participants for practical training		
<b>Prepared by</b>	Prepared by: Senior Hydrogeologist M. HASSAN, DACAAR Hydrogeologist Amad Jawid, , DACAAR		