

***IRAQI KURDISTAN REGION
MINISTRY OF AGRICULTURE & WATER RESOURCES
GENERAL DIRECTORATE OF IRRIGATION
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DESIGN OF KAWR JISK Pond IN ERBIL

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Geology of KAWR JISK Pond

The whole area of the pond site, reservoir and catchment are located within the Kolosh Formation, which are composed of dark color shale and clay stone. Map (3), Fig.

(5).The composition of Kolosh rocks are impervious and the dip direction of layers are towards upstream by a low angle, therefore these layers has a very good water tightness and stability to impound water and strong enough to carry the designated load of reservoir and pond body.

Excavation a narrow trench and removing a top soil is necessary. There are not any seismic risks for this location because there are not any deformation and fault plain, and Kolosh formation rocks give low intensity for earthquake and shaking.

Cohesive soil mixed with pebbles are the essential material for constructing the pond body, a good location to obtain this materials are present at upstream inside reservoir with UTM coordinate (X= 440475 , E= 4035125) and elevation of 740m



Fig (5) Location and geology of Kawerjisk pond

