

2.2.1 Monitoring and inspection check list during operation (minimum requirements)

(Houben & Treskatis 2003 - 2020)

TYPE OF OPERATIONAL DOCUMENTATION	TARGET	AIM	RECOMMENDED INSPECTION FREQUENCY
OPERATIONAL DATA	Water levels in well and observation well	Development of drawdown in respect of pumping and hydrogeological boundary conditions	Daily
	Delivery rates	Legal restraint of water rights (not to exceed legal abstraction limit) Also: basic data for calculation of specific well yield development	Daily
	Raw water quality	Legal restraint of water rights to determine chemical influence on well ageing	Semiannually
	Operating hours, energy consumption, pressure head	Utilization ratio of well; functional efficiency	Daily
VISUAL INSPECTION	Inner protection zone	Groundwater protection	Weekly
	Well head	Functional efficiency Groundwater protection	Weekly
	Well casing and screen	Structural state Identification of ageing	Semiannually to annually (depending on ageing potential)
	Pump, riser pipe	Structural state Identification of ageing	Semiannually to annually (depending on ageing potential)
FUNCTION CHECK	Screen	Evaluation of ageing, entrance resistance, specific well yield	Semiannually to annually (depending on ageing potential)
	Pump	Pumping rate, energy consumption, tightness of riser pipe	Annually

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