

TKI Categorisation

Classification							
Supply Chain		Process Chain		Process Chain (cont'd)		Water Quality	Water Quantity (cont'd)
Source		Raw water storage		Sludge treatment		Legislation/regulation	- Leakage
- Catchment	X	- Supply reservoir	X	- Settlement		- Raw water (source)	X - Recycle
- Groundwater	X	- Bankside storage	X	- Thickening		- Treated water	X
- Surface water	X	Pretreatment		- Dewatering		Chemical	
- Spring water	X	- Screening		- Disposal		- Organic compounds	
- Storm water	X	- Microstraining		Chemical dosing		- Inorganic compounds	
- Brackish/seawater		Primary treatment		- pH adjustment		- Disinfection by-products	
- Wastewater	X	- Sedimentation	X	- Coagulant		- Corrosion	
Raw water storage		- Rapid filtration	X	- Polyelectrolyte		- Scaling	
- Supply reservoir	X	- Slow sand filtration	X	- Disinfectant		- Chlorine decay	
- Bankside storage	X	- Bank filtration	X	- Lead/plumbosolvency		Microbiological	
Water treatment		- Dune infiltration	X	Control/instrumentation		- Viruses	Consumers / Risk
- Pretreatment		Secondary treatment		- Flow		- Parasites	
- Primary treatment		- Coagulation/flocculation	X	- Pressure		- Bacteria	X Trust
- Secondary treatment		- Sedimentation	X	- pH		- Fungi	- In water safety/quality X
- Sludge treatment		- Filtration	X	- Chlorine		Aesthetic	- In security of supply X
Treated water storage		- Dissolved air flotation(DAF)	X	- Dosing		- Hardness / alkalinity	- In suppliers X
- Service reservoir	X	- Ion exchange		- Telemetry		- pH	- In regulations and regulators X
Distribution		- Membrane treatment	X	Analysis		- Turbidity	Willingness-to-pay/acceptance X
- Pumps		- Adsorption		- Chemical		- Colour	- For safety
- Supply pipe / main	X	- Disinfection	X	- Microbiological	X	- Taste	- For improved taste/odour
Tap (Customer)		- Dechlorination	X	- Physical		- Odour	- For infrastructure
- Supply (service) pipe	X	Treated water storage					- For security of supply
- Internal plumbing	X	- Service reservoir	X			Water Quantity	Risk Communication

- Internal storage	X	Distribution					- Communication strategies
		- Disinfection	X			Source	- Potential pitfalls
		- Lead/plumbosolvency				- Source management	- Proven techniques
		- Manganese control				- Alternative source(s)	
		- Biofilm control	X			Management	
		Tap (Customer)				- Water balance	
		- Point-of-entry (POE)	X			- Demand/supply trend(s)	
		- Point-of-use (POU)	x			- Demand reduction	

TKI Categorisation (continued)

Contains		Constraints		Meta data			
Report	x	Low cost		<i>Author(s)</i>		Frederik Hammes, Marius Vital, Michael Berney	
Database		Simple technology		<i>Organisation(s)</i>		EAWAG	
Spreadsheet		No/low skill requirement		<i>Contact name</i>		Frederik Hammes	
Model		No/low energy requirement		<i>Contact email</i>		Frederik.hammes@eawag.ch	
Research	x	No/low chemical requirement		<i>Quality controller name</i>			
Literature review		No/low sludge production		<i>Quality controllerl organisation</i>			
Trend analysis		Rural location		<i>Source</i>			
Case study / demonstration	x	Developing world location		<i>Date prepared</i>		10-06-2008	
Financial / organisational				<i>Date submitted (TKI)</i>		16-06-2008	
Methodology				<i>Date revised (TKI)</i>			
Legislation / regulation							
Benchmarking							