

Hazard Identification		Initial Risk Assessment				Control Measures					Residual Risk Assessment				
Hazard	Event	Likelihood	Impact	Score	Explanation	Existing Controls	Document Reference	Trigger	Action	Monitoring	Likelihood	Impact	Score	Future controls	Verification
Use of flares during transient release	Nitrate	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	Annual data review with Welsh Water, para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Nitrite	5	2	10	Para 21 (and preeceeding paras 12-18)	Record flare time. Compare to water quality records	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	2	3	6	Para 57	
Use of flares during transient release	Sulphate	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Chloride	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 53	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Fluoride	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Benzene	5	3	15	Para 19 (and preceeding paras 12-18)	Record flare time and if applicable burst disc releases. Compare to water quality records	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	2	5	10	Para 57	
Use of flares during transient release	Antimony	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 53	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Arsenic	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Cadmium	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Chromium	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 53	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	

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Use of flares during transient release	Copper	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Lead	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Manganese	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 53	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Mercury	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Use of flares during transient release	Nickel	5	1	5	No conceivable impact (Table 2 of attached assessment)	None proposed	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Nitrate	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 53	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Nitrite	2	5	10	Potential raised accumulation rate Table 4	Compliance with air quality limits and para 36	Not yet written	para 54	para 54	Table 5 +Routine monitoring of reservoir by Welsh Water	1	3	3	Para 57	
Accumulation from routine operation	Sulphate	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Chloride	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 53	para 54	Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Fluoride	2	5	10	Potential raised accumulation rate Table 4	Compliance with air quality limits and para 37	Not yet written	para 54	para 54	Table 5 +Routine monitoring of reservoir by Welsh Water	1	5	5	Para 57	

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Accumulation from routine operation	Benzene	2	5	10	Potential raised accumulation rate Table 4	Compliance with air quality limits and para 41 + 42	Not yet written	para 54	para 54	Table 5 +Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Antimony	2	5	10	Potential raised accumulation rate Table 4	Compliance with air quality limits and para 46 to 51	Not yet written	para 53	para 54	Table 5 +Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Arsenic	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Cadmium	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Chromium	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Copper	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Lead	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Manganese	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 53	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Mercury	2	5	10	Potential raised accumulation rate Table 4	Compliance with air quality limits and para 43 to 45	Not yet written	para 54	para 54	Table 5 +Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	
Accumulation from routine operation	Nickel	1	5	5	Accumulation rate too low for concern Table 4	Compliance with air quality emission limits	Not yet written	para 54	para 54	Routine monitoring of resevoir by Welsh Water	1	5	5	Para 57	