Reservoirs: Glossary

This glossary is to support the Scottish Environment Protection Agency's (SEPA) reservoir regulatory duties, assigned under the Reservoirs (Scotland) Act 2011.

Term	Acronym	Definition
Breach scenario		A breach scenario is a situation where there is a
		complete failure of a dam and all the water is
		released.
Cascade		Where water does or could flow between a number
		of different reservoirs often within the same valley or
		glen
Crest level		The elevation at which the uppermost surface of a
		dam sits (not including any parapet wall or railing
		etc.)
Civil sanctions		An enforcement intervention that can be applied
		directly by the regulator.
Controlled		A controlled reservoir is a structure designed or used
Reservoir		for collecting water which is capable of holding
		10,000 cubic meters or more of water above the
		natural level of any part of the surrounding land. The
		term also applies to a combination of more than one
		structure or area where more than 10,000m ³ water
		does or could flow between them or where there
		could be an uncontrolled release of water greater
		than 10,000m ³ from the combination
Dam		A dam is a man-made barrier usually built across a
		river to hold back water forming a lake of reservoir
		bening it. It can be constructed from concrete of
		The primery types of dem include creb, growity
Dam type		huttross, gravity arch, sonvice or embankment
Engineer		These are produced by papel engineers who are
certificates		responsible for inspecting and monitoring a reservoir
Engineer reports		Report produced by inspecting engineers following
		reservoir inspections that will recommend what
		actions (if any) must be taken by the reservoir
		manager to maintain or improve reservoir integrity.
First risk		The risk designation ('high', 'medium' or 'low') is
designation		assigned to a reservoir once the period for
5		representations has ended (see "Provisional risk
		designation" below.
Flood Risk	FRM Act	Legislation which transposes the European
Management		Commission Floods Directive into Scots Law and
(Scotland) Act 2009		aims to reduce the adverse consequences of
		flooding on communities, the environment, cultural
		heritage and economic activity.
Grid reference		A grid reference is a combination of letters and
		numbers used to locate a feature on a map. For
		example, an 8 figure grid reference is formed of 2
		letters & 8 numbers, e.g. NN 1234 5678.
Hazard		A situation with the potential to result in harm. A
		hazard does not necessarily lead to harm.

Impoundment	Any dam, weir, or other works by which water may
•	be impounded (i.e. collected and stored); or any
	works diverting waters in connection with the
	construction or alteration of any dam weir or other
	works. Raising the level of an existing natural loch is
	also considered an impoundment. A pond or loch
	created by excavation below the pre-existing around
	level (e.g. a dug pond or flooded guarry) is not
	included.
Incident Reporting	Reservoir Managers are required to report to SEPA incidents that have occurred at their reservoir
Inspecting Engineer	A Panel engineer appointed by the Reservoir
	Manager of a high risk or medium risk reservoir to
	carry out an inspection
Inundation man	A map showing areas that would likely be affected by
mandation map	flooding from uncontrolled releases of water from a
	reservoir
Local Authorities	Local authorities were the regulators of reservoir
Local Addiontics	safety before SEPA took over in 2016
Nominated reservoir	Nominated to act on behalf of multiple reservoir
manager	managers and may act as a central point of contact
manager	in correspondence with SEPA All individual reservoir
	managers are still legally responsible for complying
	with regulation
Panel Engineer	Panel engineers are a group of specialist civil
	engineers appointed by Scottish Ministers in
	consultation with the Institution of Civil Engineers
	They undertake the supervision of construction of
	reservoirs and the ongoing supervision monitoring
	and inspection of reservoirs. It is the responsibility of
	the reservoir manager to appoint panel engineers for
	their reservoirs
Primary purpose of	The primary purpose of water stored in a reservoir
stored water	include: agriculture industrial/commercial
	environmental service fish production flood
	defence bydronower private drinking water supply
	or public drinking water supply
Provisional risk	SEPA is required to give a provisional risk
designation	designation to all registered
designation	controlled reservoirs as soon as practicable once
	registered Reservoir managers are able to make a
	representation to SEPA within two
	months if they are dissatisfied with the risk assigned
	to their reservoir
Public register	The public register is one of the legislative
i ubile legistel	requirements that SEPA has acquired through the
	Reservoir (Scotland) Act 2011 SEPA must establish
	and maintain and make available to the public a
	controlled reservoirs register which contains specific
	information on each reservoir.
Registration	The Reservoir Manager of a controlled reservoir
	must register the reservoir with SEPA.
Registration period	This is the period of time when a Reservoir Manager
	can register their Reservoir with SEPA.

Regulatory Authority	Through the phased implementation of the Reservoir (Scotland) Act 2011, SEPA is now the regulatory authority for reservoir safety in Scotland, providing
	regulation, advice and guidance to the industry.
Representation	If a Reservoir Manager is dissatisfied with the risk
	designation assigned to their reservoir following
	SEPA's provisional risk designation, they can make
	a representation to SEPA explaining why they feel
	that the risk designation is wrong.
Reservoir	A reservoir is generally understood to be a place
	where water is retained usually by a man-made
	structure to be reserved, for such purposes as
	storage
Posorvoir Managor	A Reservoir Manager is the operator user or owner
Reservoir Manager	of the reservoir and has ultimate responsibility for its
	safaty
Reservoir Owner	The Reservoir Owner may be different to the
	Reservoir Manager in certain cases e.g. where the
	reservoir has been leased from a landowner for
	commercial or recreational purposes and the tenant
	of the lease, if responsible for managing the
	reservoir, becomes the Reservoir Manager.
Reservoir Reference	This is the number that SEPA assigns to a reservoir
Number	to help identify it following registration with SEPA. It
	should be used in all correspondence with SEPA
Reservoir (Scotland)	The legislation under which reservoir safety was
Act 1975	previously regulated, prior to 1 April 2016. Under the
	Reservoirs Act 1975 local authorities were
	responsible for the registration and regulation of
	reservoirs.
Reservoir (Scotland)	I ne current legislation under which reservoir safety
ACT 2011	is regulated, replacing the Reservoirs Act 1975. The
	transforred from local authorities to the Scottish
	Environment Protection Agency (SEPA)
Reservoir Type	The different types of reservoir include impounding
	non-impounding or service reservoir
Review	A Reservoir Manager may seek to have their
	reservoir's risk designation reviewed if. following a
	representation, they are still dissatisfied with the risk
	designation given to their reservoir. SEPA is also
	required to undertake a review of a reservoirs risk
	designation when it considers it to be no longer
	appropriate or by the end of the period of six years
Risk	A combination of both the likelihood and
	consequences of an event.
Risk Designation	The Reservoirs (Scotland) Act 2011 requires SEPA
	to assign a risk designation of either 'high', 'medium',
	or 'low' to all controlled reservoirs. The risk
	designation will be based on the potential impacts on
	a variety of receptors from an uncontrolled release of
	water. High lisk sites will receive a greater level of

Supervising Engineer	A Panel engineer appointed by the reservoir manager of high and medium risk reservoirs to visit and monitor matters as required.
Top water level (mAOD)	This is related to the volume of water that is usually stored in the reservoir and it is defined by the height of the lowest fixed spillway crest.
Undertaker	In terms of the Reservoirs Act 1975, the "undertaker" is the person or organisation with responsibility for a reservoir. The "Reservoir Manager" replaces the "undertaker" and is responsible for registering each controlled reservoir under the Reservoirs (Scotland) Act 2011.