

Canadian Aquatic Barriers Database

Simplified Data Dictionary

Feature Types

Dams

Definition: *In the CABD, dams are defined as: small dams (i.e., having a height of less than 5 m), medium dams (i.e., having a height between 5 and 15 m), and large dams (i.e., having height of 15 m or greater, or a height between 5 m and 15 m that impounds more than 3 million m³).*

Attributes: [Assessment Schedule](#), [Average Rate of Discharge \(L/s\)](#), [Barrier Identifier](#), [Comments](#), [Completeness Level](#), [Construction Type](#), [Construction Year](#), [Dam Condition](#), [Dam Function](#), [Dam Name \(English\)](#), [Dam Name \(French\)](#), [Dam Size](#), [Dam Use](#), [Degree of Regulation](#), [Downstream Passage Route](#), [Expected Life \(Years\)](#), [Facility Name \(English\)](#), [Facility Name \(French\)](#), [Feature Data Source Details](#), [Feature Type](#), [Federal Compliance Status](#), [Federal Flow Requirements \(m³/s\)](#), [Generating Capacity \(MWh\)](#), [Has Hydro Peaking System](#), [Height \(m\)](#), [Lake Control](#), [Last Maintenance Date](#), [Last Modified](#), [Latitude](#), [Length \(m\)](#), [Longitude](#), [Municipality](#), [Next Maintenance Date](#), [NHN Watershed ID](#), [Number of Turbines](#), [Operating Note](#), [Operating Status](#), [Owner](#), [Ownership Type](#), [Passability Status](#), [Passability Status Note](#), [Province/Territory Name](#), [Provincial Compliance Status](#), [Provincial Flow Requirements \(m³/s\)](#), [Removed Year](#), [Reservoir Area \(km²\)](#), [Reservoir Depth \(m\)](#), [Reservoir Name \(English\)](#), [Reservoir Name \(French\)](#), [Reservoir Present](#), [Spillway Capacity](#), [Spillway Type](#), [Storage Capacity \(mcm\)](#), [Turbine Type](#), [Upstream Catchment Area \(km²\)](#), [Upstream Linear Length \(km\)](#), [Upstream Passage Type](#), [Use Fisheries](#), [Use Flood Control](#), [Use Hydroelectric](#), [Use Invasive Species Control](#), [Use Irrigation](#), [Use Navigation](#), [Use Other](#), [Use Pollution Control](#), [Use Recreation](#), [Use Water Supply](#), [Waterbody Name \(English\)](#), [Waterbody Name \(French\)](#), [NHN Watershed Name](#)

Waterfalls

Definition: *A natural structure that may impede the ability of fish to travel upstream due to changes in elevation and increased flow velocity.*

Attributes: [Barrier Identifier](#), [Comments](#), [Completeness Level](#), [Last Modified](#), [Latitude](#), [Longitude](#), [Fall Height \(m\)](#), [Fall Name \(English\)](#), [Fall Name \(French\)](#), [Feature Data Source Details](#), [Feature Type](#), [Municipality](#), [NHN Watershed ID](#), [Passability Status](#), [Province/Territory Name](#), [Waterbody Name \(English\)](#), [Waterbody Name \(French\)](#), [NHN Watershed Name](#)

Fishways

Definition: *A structure that is constructed to facilitate the passage of fish up- and/or downstream of an aquatic barrier (e.g., a dam or waterfall).*

Attributes: [Architect](#), [Attraction Estimate \(%\)](#), [Average Velocity of Water Flow \(m/s\)](#), [Completeness Level](#), [Constructed By](#), [Contracted By](#), [Dam Identifier](#), [Designed Based on Biology](#), [Elevation \(m\)](#), [Engineering Notes](#), [Entrance Location](#), [Entrance Position](#), [Evaluating Study](#), [Feature Data Source Details](#), [Feature Type](#), [Fishway Type](#), [Gradient](#), [Has Evaluating Studies](#), [Is Modified](#), [Latitude](#), [Length \(m\)](#), [Longitude](#), [Maximum Velocity of Water Flow \(m/s\)](#), [Mean Channel Depth \(m\)](#), [Modification Purpose](#), [Modification Year](#), [Monitoring Equipment](#), [Municipality](#), [Nature of Evaluating Studies](#), [NHN Watershed ID](#), [Operating Note](#), [Operation Period](#), [Plans](#)

[Held By](#), [Province/Territory Name](#), [Purpose of Fishway](#), [River/Stream Name \(English\)](#), [River/Stream Name \(French\)](#), [Species Known to Not Use](#), [Species Known to Use](#), [Structure Name \(English\)](#), [Structure Name \(French\)](#), [System Identifier](#), [Transit Success Estimate \(%\)](#), [Waterbody Name \(English\)](#), [Waterbody Name \(French\)](#), [NHN Watershed Name](#), [Year Constructed](#)

Attribute Descriptions

Assessment Schedule

Definition: *The frequency that the dam structure is assessed by an owner or regulatory body.*

Average Rate of Discharge (L/s)

Definition: *The average rate of discharge at the dam location in litres per second.*

Barrier Identifier

Definition: *Unique identifier for each barrier point.*

Comments

Definition: *Unstructured comments about the feature.*

Completeness Level

Definition: *The level of information available for the feature in the CABD.*

Values:

Name	Description (Dams)	Description (Waterfalls)	Description (Fishways)
Unverified	<i>Record is not verified.</i>	<i>Record is not verified.</i>	<i>Record is not verified.</i>
Minimal	<i>Location is verified but little attribute data is captured.</i>	<i>Only location is verified.</i>	<i>Only location is verified.</i>
Moderate	<i>Location is verified, and most attribute data is captured.</i>	<i>Location and height are known—unknown if waterfall is a barrier to fish.</i>	<i>Location and some attributes are known.</i>
Complete	<i>Location is verified, and all attribute data is captured.</i>	<i>Location and height are known—confirmed to be a barrier to fish.</i>	<i>Location and all attributes are known.</i>

Construction Type

Definition: *The type of dam structure, categorized by construction material/design.*

Values:

Name	Description
Arch	<i>Concrete structure that is curved in the upstream direction.</i>
Buttress	<i>Structure with watertight wall supported at intervals on the downstream side by a series of triangle shaped walls; typically, reinforced concrete.</i>
Earthfill	<i>Structure composed of successive compacted layers of earth; clay-soil core reduces permeability. Also referred to as earth and embankment dams.</i>
Gravity	<i>Structure constructed of concrete and/or masonry which relies on its weight and internal strength for stability.</i>
Multiple Arch	<i>A buttress dam composed of a series of arches for the upstream face.</i>
Rockfill	<i>Structure composed of dumped and compacted rock fill; permeable with impermeable core or layer on the upstream face.</i>
Steel	<i>Structure consisting of a steel framework; inclined struts and steel plates on the upstream face. Supplemented with timber and earthfill to make them water-tight, steel dams are sometimes used as a temporary cofferdam during the construction of the main dam.</i>
Timber	<i>Structure built primarily of wood. Commonly used for temporary water diversion in low-head (2-4 m) areas during the construction of the main dam.</i>
Unknown	<i>Construction type is unknown.</i>
Other	<i>Construction type is different than those defined in this table.</i>

Construction Year

Definition: *The year dam construction was completed.*

Dam Condition

Definition: *The dam's physical condition.*

Values:

Name	Description
Good	<i>Structure is fit for its intended purpose; not damaged and capable of agreed standard of performance.</i>
Fair	<i>Structure is in average condition, possessing minor defects.</i>
Poor	<i>Structure condition is deteriorated and requires maintenance.</i>
Unreliable	<i>Structure is not suitable for its intended purpose.</i>

Dam Function

Definition: *The intended function of the dam.*

Values:

Name	Description
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Storage	<i>A structure built to store water during times of high flow for a variety of purposes (e.g., water supply, irrigation etc.).</i>
Diversion	<i>A structure built to divert all or some of the water from a waterway into a man-made canal or conduit.</i>
Detention	<i>A structure built for flood control. Retains excess water in a reservoir to maintain the carrying capacity of the waterway, releasing it gradually at a controlled rate to protect downstream areas from flooding.</i>
Debris	<i>A structure built across a waterway to retain debris (e.g., driftwood, gravel, sand etc.).</i>
Coffer	<i>An enclosed temporary structure commonly used during construction. Water is pumped from the enclosure to provide a dry worksite.</i>
Saddle	<i>An auxiliary structure constructed at low spots along the perimeter of a reservoir to limit its extent, or to allow for an increase in storage capacity.</i>
Hydro – Closed-cycle pumped storage	<i>A facility configured to pump water between two water reservoirs at different elevations; both reservoirs are isolated from a free-flowing water source.</i>
Hydro – Conventional storage	<i>A facility that impounds water, which when released, flows through a turbine and generates electricity.</i>
Hydro – Open-cycle pumped storage	<i>A facility configured to pump water between two water reservoirs at different elevations; a free-flowing water source is used for either the upper or lower reservoir.</i>
Hydro – Run-of-river	<i>A facility that channels flowing water from a river through a canal or penstock to spin a turbine.</i>
Hydro – Tidal	<i>A facility configured to intake and store water during high tide and slowly release it back into the ocean during low tide.</i>
Other	<i>The function of the dam cannot be defined by the types listed in this table.</i>
Unknown	<i>No information is known regarding the function of the dam structure/facility.</i>

Dam Name (English)

Definition: *Given or known name of the dam structure (English).*

Dam Name (French)

Definition: *Given or known name of the dam structure (French).*

Dam Size

Definition: *The size category of the dam based on the height of the dam in meters ([‘Height \(m\)’](#)).*

Values:

Name	Description
Small	<i>A dam having a height less than 5 m.</i>
Medium	<i>A dam having a height between 5 and 15 m.</i>
Large	<i>A dam having a height of 15 m or greater, or a height between 5 m and 15 m that impounds more than 3 million m³.</i>
Unknown	-

Dam Use

Definition: *The primary use of the dam.*

Values:

Name	Description
Irrigation	<i>Supplies controlled amounts of water to land or crops in needed intervals.</i>
Hydroelectricity	<i>Generates electricity by passing water through a hydraulic turbine.</i>
Water supply	<i>Water stored for municipal use.</i>
Flood control	<i>Reduces the effects of flood waters or high-water levels on downstream areas.</i>
Recreation	<i>Reservoir allows for recreational activities (e.g., swimming, boating, fishing, etc.).</i>
Navigation	<i>Increases water levels on rivers to permit ship to navigate waters that were previously unnavigable.</i>
Fisheries	<i>Increasing water levels of the reservoir during spawning season creates suitable spawning habitat for fish, enhancing fish production and fishing success of anglers.</i>
Pollution control	<i>Protects the water resource by trapping polluted water in reservoirs or ponds.</i>
Invasive species control	<i>Prevents the spread of invasive species upstream or to environmentally sensitive areas within the waterway.</i>
Other	<i>The intended use of the dam cannot be defined by the use categories defined in this table.</i>
Unknown	<i>The intended use of the dam is unknown.</i>

Degree of Regulation

Definition: *Degree of Regulation (DOR) in percent; equivalent to “residence time” of water in the reservoir.*

Downstream Passage Route

Definition: *The type of downstream fish passage route associated with the dam.*

Values:

Name	Description
Bypass	<i>A fish screen is used to channel juvenile fish downstream of the structure, bypassing the turbine channel.</i>
River Channel	<i>Fish move downstream of the structure via the natural river channel.</i>
Spillway	<i>Fish move downstream of the structure by passing over the spillway.</i>
Turbine	<i>Fish move downstream of the structure by passing through the turbine channel.</i>

Expected Life (Years)

Definition: *The number of years the dam structure is expected to last.*

Facility Name (English)

Definition: *The given or known name of the larger facility of which the dam is a part of (e.g., a hydroelectric generating station or mining operation; English).*

Facility Name (French)

Definition: *The given or known name of the larger facility that the dam is a part of (e.g., a hydroelectric generating station or mining operation; French).*

Fall Height (m)

Definition: *Height of the waterfall in meters.*

Fall Name (English)

Definition: *Given or known name of the waterfall (English).*

Fall Name (French)

Definition: *Given or known name of the waterfall (French).*

Feature Data Source Details

Definition: A link to download a CSV of data source information for all attributes of a single feature.

Fields included in download:

Name	Description
attribute_field_name	The name of the attribute which has been populated with information from a specific data source.
datasource_name	The short name given to the data source which was used to populate information for the associated attribute.
datasource_feature_id	The unique identifier for the feature from the original spatial source dataset which was used to populate information for the associated attribute. This field will be blank if the data source is non-spatial.

Feature Type

Definition: The type of feature the data point represents.

Values:

Name	Description
Dams	A structure that is constructed to divert or hold back water of a stream, river, or lake for a specific purpose, e.g., hydroelectricity, water storage, or flood control. This category includes dams, weirs, and dykes.
Waterfalls	A natural structure that may impede the ability of fish to travel upstream due to differences in elevation and increased flow velocity.
Fishways	A structure that is constructed to facilitate the passage of fish up- and/or downstream of an aquatic barrier (e.g., dam or waterfall).

Federal Compliance Status

Definition: The regulatory authorizations that have been approved for the dam by the federal licensing body.

Federal Flow Requirements (m³/s)

Definition: The minimum flow recommendations for the dam structure in cubic meters per second (m³/s). Based on assessments by Fisheries and Oceans Canada for the protection of fish and fish habitat.

Generating Capacity (MWh)

Definition: The amount of electricity the hydroelectric facility can produce in megawatt hours.

Has Hydro Peaking System

Definition: Indicates if the dam uses a hydro peaking system.

Height (m)

Definition: *The reported height of the dam in meters. Depending on the data source this can be height of the dam wall, crest height, or head height.*

Lake Control

Definition: *Indicates if a reservoir has been built at the location of an existing natural lake using a lake control structure.*

Values:

Name	Description
Yes	<i>The lake control structure raises the original water level.</i>
Enlarged	<i>The lake control structure enlarged the original lake surface area.</i>
Maybe	<i>Unknown, but data indicates the presence of a lake control structure.</i>

Last Maintenance Date

Definition: *The date of last maintenance or renovation work.*

Last Modified

Definition: *The release date of the data source most recently used to create, revise, or confirm the feature record.*

Latitude

Definition: *The geographic x-coordinate representing the location of the feature.*

Length (m)

Definition: *The length of the crest of the dam from one bank (or abutment) to the other in meters.*

Longitude

Definition: *The geographic y-coordinate representing the location of the feature.*

Municipality

Definition: *The municipality the feature is located in.*

Next Maintenance Date

Definition: *The date of the next scheduled maintenance or renovation work.*

NHN Watershed ID

Definition: *A code referencing the work unit 'Dataset Name' from the National Hydrographic Network (NHN) that the feature is located in.*

Number of Turbines

Definition: *The number of turbines in the dam structure.*

Operating Note

Definition: *Unstructured comments on important operation considerations for the dam structure or fishway.*

Operating Status

Definition: *The operating status of the dam.*

Values:

Name	Description
Abandoned/Orphaned	<i>Structure is not in operation; has no identifiable owner with legal liability.</i>
Active	<i>Structure is in operation; functioning as intended.</i>
Decommissioned	<i>Structure dismantled/removed.</i>
Retired/Closed	<i>Structure was withdrawn from service but remains in place.</i>
Unknown	<i>Operating status of the structure is not known.</i>

Owner

Definition: *The person, company, organization, government unit, public utility, corporation, or other entity which either holds a water license to operate a dam or retains the legal property title on the dam site.*

Ownership Type

Definition: *The ownership category associated with the dam.*

Values:

Name	Description
Charity/Non-profit	<i>Privately held entities that do not provide financial benefits to their members or organizations; independent from any government.</i>
Federal	<i>National government organization (i.e., department, agency, crown corporation) that performs national level regulatory and administrative functions.</i>
Municipal	<i>Local governing body that provides services, facilities, safety, and infrastructure for communities.</i>

Private	<i>Organization, corporation, or partnership operated for profit that is not public or controlled by one or more public corporations.</i>
Provincial/Territorial	<i>Regional government organization with jurisdiction over their specific regional boundaries.</i>
Other	<i>The ownership type of the dam cannot be defined by the categories presented in this table.</i>
Unknown	<i>Ownership of the dam structure is unknown.</i>

Passability Status

Definition: *The degree to which the feature acts as a barrier to fish in the upstream direction.*

Values:

Name	Description	(Dams)	(Waterfalls)
Barrier	<i>The structure acts as a hard barrier to all aquatic species.</i>	<i>Dam has no associated fishway structure.</i>	<i>Waterfall has a height of 5 m or greater.</i>
Partial Barrier	<i>The structure may act as a barrier to some aquatic species but may also be passable to others.</i>	<i>A fishway structure is associated with the dam.</i>	<i>Waterfall has a height of less than 5 m.</i>
Passable	<i>The structure does not act as a barrier to aquatic species.</i>	-	-
Unknown	<i>The passability status of the structure is unknown.</i>	-	<i>Waterfall height is unknown.</i>

Passability Status Note

Definition: *Unstructured notes to provide context for the assigned passability status (e.g., species restrictions).*

Province/Territory Name

Definition: *The Province or Territory the feature is located in.*

Provincial Compliance Status

Definition: *The regulatory authorizations that have been approved for the dam by the provincial licensing body.*

Provincial Flow Requirements (m³/s)

Definition: *The legislated flow requirements for the dam structure in cubic meters per second (m³/s) regulated by the provincial licensing body.*

Removed Year

Definition: *The year the dam was decommissioned, removed, replaced, subsumed, or destroyed.*

Reservoir Area (km²)

Definition: *The surface area of the reservoir in square kilometers.*

Reservoir Depth (m)

Definition: *The average depth of the reservoir in meters.*

Reservoir Name (English)

Definition: *Name of the reservoir or controlled lake (English).*

Reservoir Name (French)

Definition: *Name of the reservoir or controlled lake (French).*

Reservoir Present

Definition: *Indicates if a reservoir is present due to construction of the dam.*

Structure Name (English)

Definition: *The given or known name of the fishway structure or the dam with which it is associated (English).*

Structure Name (French)

Definition: *The given or known name of the fishway structure or the dam it is associated with (French).*

Spillway Capacity

Definition: *The designed capacity of the spillway in m³/s.*

Spillway Type

Definition: *The type of spillway associated with the dam structure.*

Values:

Name	Description
Combined	Single spillway that acts as both the principal and emergency spillway.
Free	Surplus water falls freely from the crest of the weir; a straight drop spillway or free overfall spillway.
Gated	Surplus water is regulated with a gate to prevent downstream flooding.

Other	The spillway type of the dam structure is defined as something other than 'combined', 'free', or 'gated'.
None	<i>Structure does not have a spillway.</i>

Storage Capacity (mcm)

Definition: *The storage capacity of the reservoir in million cubic meters.*

Turbine Type

Definition: *The type of turbine in the dam structure.*

Values:

Name	Description
Cross-flow	<i>An impulse turbine used in smaller hydroelectric sites with power outputs between 5 and 100 kW. Known also as Banki-Mitchell or Ossberger turbines.</i>
Francis	<i>A reaction (propeller) turbine commonly used in medium- or large-scale hydroelectric plants for head heights as low as 2 m and as high as 300 m.</i>
Kaplan	<i>A reaction (propeller) turbine with axial-flow and adjustable blades. Most useful for use in dams with large volumes of flow.</i>
Pelton	<i>An impulse turbine commonly used in facilities with head height greater than 300 m.</i>
Unknown	-

Upstream Catchment Area (km²)

Definition: *The area of upstream catchment draining into the reservoir in square kilometers.*

Upstream Linear Length (km)

Definition: *The amount of unobstructed linear kilometers upstream of the dam that would become available to aquatic species if the dam were to be remediated.*

Upstream Passage Type

Definition: *The type of upstream fish passage measure associated with the dam.*

Values:

Name	Description
Denil	<i>A series of close-spaced baffles placed on the bottom and/or sides of an inclined (up to 20%) channel, to redirect the flow of water and reduce its velocity, allowing fish to ascend and migrate upstream.</i>
Nature-like fishway	<i>A diversion channel excavated along the bank of the river, allowing fish to bypass the barrier structure.</i>
Pool and weir	<i>A series of small overflow pools and weirs forming steps that fish can jump between, migrating upstream.</i>

Pool and weir with hole	<i>A series of small overflow pools and weirs provided with submerged holes in which fish can jump between, migrating upstream.</i>
Trap and truck	<i>Fish are trapped and transported upstream of the barrier where they are released.</i>
Vertical slot	<i>A variation of pool and weir fishways where weirs are replaced by walls with vertical slots in which fish can pass through, allowing fish to swim at their desired depth.</i>
Other	<i>A fish passage measure exists but is different than the types defined in this table.</i>
No structure	<i>No fish passage measure is present.</i>
Unknown	<i>Fish passage measures exists but no other information is known.</i>
NULL	<i>No fish passage information is known.</i>

Use Fisheries

Definition: *Indicates the dam is used for fisheries purposes, and the extent to which fisheries are a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Flood Control

Definition: *Indicates the dam is used for flood control purposes, and the extent to which flood control is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Hydroelectric

Definition: *Indicates the dam is used for hydroelectric energy production, and the extent to which hydroelectric production is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Invasive Species Control

Definition: *Indicates the dam is used to control invasive species and the extent to which invasive species control is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Irrigation

Definition: *Indicates the dam is used for irrigation purposes, and the extent to which irrigation is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Navigation

Definition: *Indicates the dam is used for navigation, and the extent to which navigation is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Other

Definition: *Indicates the dam is used for “other” purposes, and the extent to which it is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Pollution Control

Definition: *Indicates the dam is used for pollution control purposes, and the extent to which pollution control is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Recreation

Definition: *Indicates the dam is used for recreation purposes, and the extent to which recreation is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Use Water Supply

Definition: *Indicates the dam is used for water supply purposes, and the extent to which water supply is a planned use.*

Values:

Name	Description
Main	<i>The primary/most important purpose of the dam.</i>
Major	<i>A primary/important use of the dam but not the main use.</i>
Secondary	<i>A secondary use of the dam.</i>

Waterbody Name (English)

Definition: *Name of waterbody in which the feature is recorded (English).*

Waterbody Name (French)

Definition: *Name of waterbody in which the feature is recorded (French).*

NHN Watershed Name

Definition: *The name of the sub-sub watershed that the feature is located in.*

Fishway-specific Attributes

Architect

Definition: *Company/organization that designed the fishway structure.*

Attraction Estimate (%)

Definition: *Portion of individuals attracted to the fishway in percent.*

Average Velocity of Water Flow (m/s)

Definition: *Average velocity of water flow through the fishway in m/s.*

Constructed By

Definition: *Name of the company that constructed the fishway.*

Contracted By

Definition: *Name of the agency that contracted the fishway.*

Dam Identifier

Definition: *The unique barrier identifier corresponding to the dam that the fishway structure is associated with.*

Designed Based on Biology

Definition: *Indicates whether the fishway was designed based on the biology of the species.*

Elevation (m)

Definition: *Change in height between fishway exit and entrance in meters.*

Engineering Notes

Definition: *Notes regarding design and construction of the fishway*

Entrance Location

Definition: *Indicates if the entrance of the fishway is located mid-stream or on the bank.*

Values: *Midstream, Bank*

Entrance Position

Definition: *Indicates the entrance position of the fishway in the water column.*

Values: *Bottom, Surface, Bottom and Surface, Mid-column*

Fishway Type

Definition: *The type of fishway structure (values are consistent with '[Upstream Passage Type](#)' values for dams).*

Values:

Name	Description
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Denil	<i>A series of close-spaced baffles placed on the bottom and/or sides of an inclined (up to 20%) channel, to redirect the flow of water and reduce its velocity, allowing fish to ascend and migrate upstream.</i>
Nature-like fishway	<i>A diversion channel excavated along the bank of the river, allowing fish to bypass the barrier structure.</i>
Pool and weir	<i>A series of small overflow pools and weirs forming steps that fish can jump between, migrating upstream.</i>
Pool and weir with hole	<i>A series of small overflow pools and weirs provided with submerged holes in which fish can jump between, migrating upstream.</i>
Trap and truck	<i>Fish are trapped and transported upstream of the barrier where they are released.</i>
Vertical slot	<i>A variation of pool and weir fishways where weirs are replaced by walls with vertical slots in which fish can pass through, allowing fish to swim at their desired depth.</i>
Other	<i>A fish passage measure exists but is different than the types defined in this table.</i>
No structure	<i>No fish passage measure is present.</i>
Unknown	<i>Fish passage measures exists but no other information is known.</i>
NULL	<i>No fish passage information is known.</i>

Gradient

Definition: *The fishway's angle of inclination in percent.*

Has Evaluating Studies

Definition: *Indicates whether an evaluation study has been performed at the fishway.*

Is Modified

Definition: *Indicates if the fishway has had any post-construction modifications.*

Maximum Velocity of Water Flow (m/s)

Definition: *Maximum velocity of water flow recorded in the fishway in m/s.*

Mean Channel Depth (m)

Definition: *Depth of fishway channel, in meters, during operation.*

Modification Purpose

Definition: *Purpose of post-construction modifications.*

Modification Year

Definition: *The year that post-construction modifications were completed.*

Monitoring Equipment

Definition: *Monitoring equipment used at the fishway.*

Nature of Evaluating Studies

Definition: *The type of evaluation study performed.*

Operation Period

Definition: *The dates the fishway is in operation.*

Plans Held By

Definition: *Name of the agency that possesses the plans for the fishway.*

Purpose of Fishway

Definition: *The reason the fishway was designed and implemented.*

Evaluating Study

Definition: *The reference for the literature (peer-reviewed and “grey”) used to gather additional information about the fishway.*

River/Stream Name (English)

Definition: *Name of river/stream in which the feature is recorded (English).*

River/Stream Name (French)

Definition: *Name of river/stream in which the feature is recorded (French).*

Species Known to Not Use

Definition: *Species where it is known that the fishway presents a significant barrier to migration.*

Species Known to Use

Definition: *Species that are known to use the fishway.*

System Identifier

Definition: *Unique identifier for each fishway point.*

Transit Success Estimate (%)

Definition: *Estimated percentage of individuals that successfully pass through the fishway.*

Year Constructed

Definition: *Year in which the fishway structure was built.*