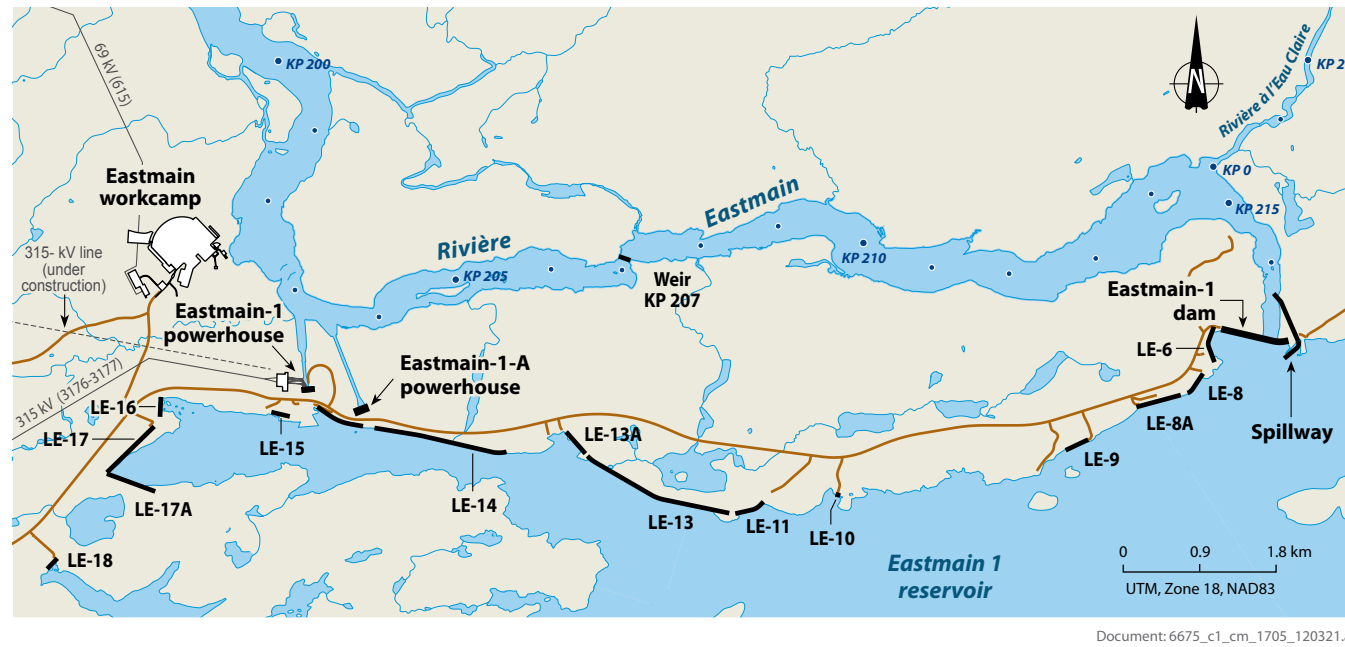


Territory



Eastmain-1-A Powerhouse

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Development

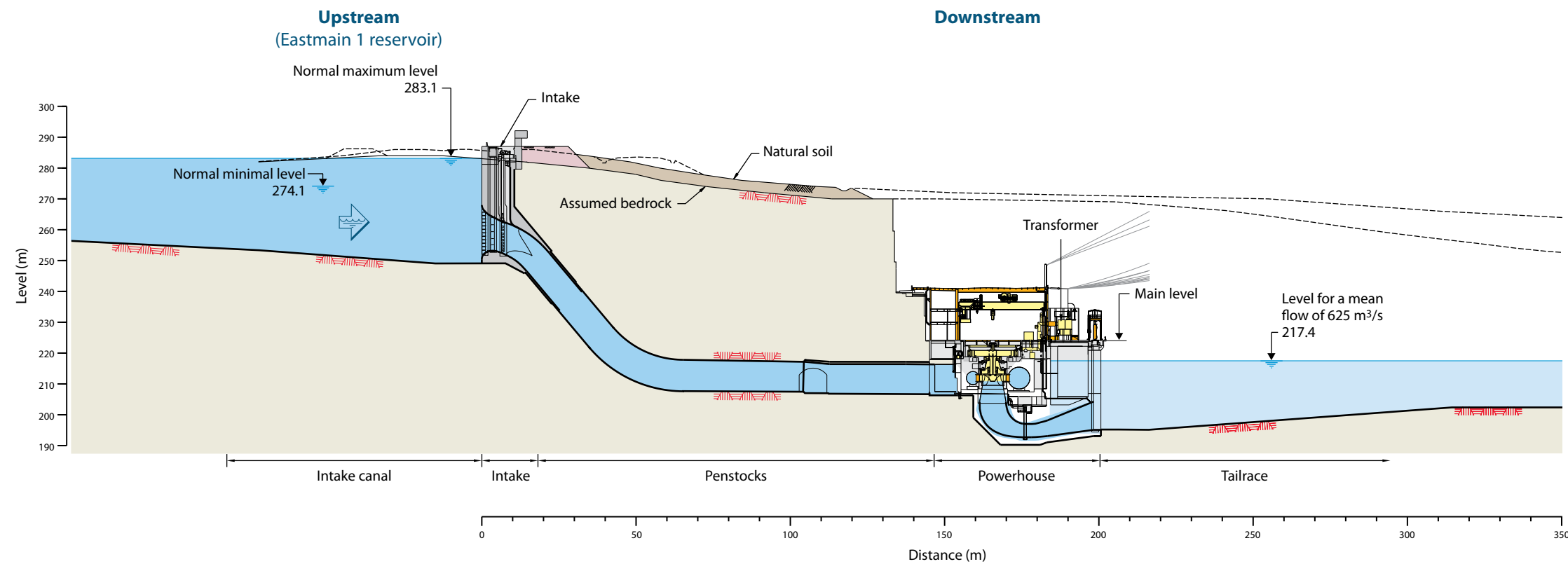


2012G071A-1 100% December 2013

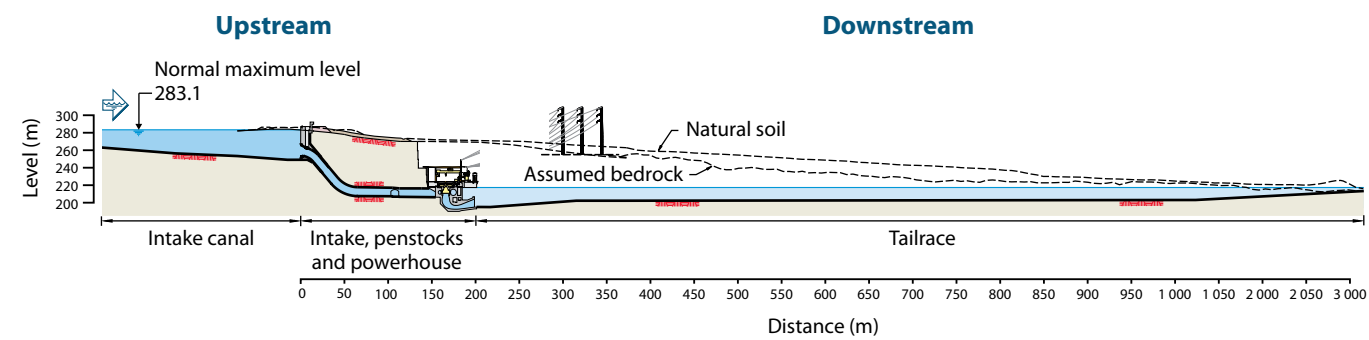


Cross Section of Eastmain-1-A Powerhouse

Cross section of the powerhouse



Cross section of the site



Legend

	Steel structure		Concrete
	Mechanical and electrical equipment		Overburden
	Backfill		Bedrock

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Some Facts and Figures

General

Type of powerhouse	Surface with reservoir
Powerhouse length	134.5 m
Powerhouse width	37.2 m
Total installed capacity	768 MW
Annual output	2.3 TWh/year, equal to the annual consumption of more than 135,000 homes
Construction	2007–2012
Number of workers on site at peak of construction	1,200 (summer 2009 and summer 2010)
Number of people to have worked on site since the beginning of construction	More than 6,800 people

Penstocks

Head	63 m
Total length	144 m
Length (armoured segment)	41.8 m
Diameter (concreted segment)	9.4 m
Diameter (armoured segment)	8.7 m

Intake

Height	37.9 m
Length	79.1 m

Generating units

Type of unit	Francis (vertical axis)
Number of units	3
Design flow	1,344 m ³ /s or 448 m ³ /s per unit
Rotor diameter	12.96 m
Size of the Francis runner	6.8 m (diameter) 4.3 m (height)

