



**2016 DAM STATUS REPORT FORM  
FOR OWNERS OF HIGH, VERY HIGH & EXTREME CONSEQUENCE DAMS**

**OFFICE USE ONLY:**

File Number: D (730149-00)  
Dam Safety Officer: John Baldwin  
Region: HQ, VI, SR, KM, PN, NL, WL, PG  
Consequence: AG, DA

**COMPLETED FORM MUST BE SUBMITTED BY FEBRUARY 1, 2017**

**By Mail:** Dam Safety Section, Water Management Branch  
Ministry of Forests, Lands and Natural Resource Operations, Victoria BC  
Please mail to the address located on the bottom of this page.

**By Fax:** 250-356-0605

**By email:** [dam.safety@gov.bc.ca](mailto:dam.safety@gov.bc.ca)

*Please fill in Dam Name, Failure Consequence Class, and contact information: name, address, phone # & e-mail below:*

**Dam Name:** Gardom Dam **Failure Consequence Class:** High

**Your Name:** Joshua Frederick, P.Eng

**Your Address:** 625 Fisgard Street, Victoria, BC V8W 2S6

**Phone number:** 250-360-3097, **E-mail address:** [jfrederick@crd.bc.ca](mailto:jfrederick@crd.bc.ca)

**Please read the information overleaf (page 2) before completing this form. For more information, see the Compliance and Enforcement section of our website: [www.gov.bc.ca/water](http://www.gov.bc.ca/water).**

1. Have you received a copy of the *Dam Safety Regulation* (February 29, 2016)? Yes  No
2. Has your Formal Inspection for 2016 been completed? Yes  No   
Inspected By: Owner  Other  Who? Fraser Hall (CRD Integrated Water Services)  
Comments:
3. Did you undertake *regular* (see page 2) Site Surveillance? Yes  No   
Comments: weekly monitoring
4. Have any new dam safety concerns been identified this year (2016)? Yes  No   
If yes, please elaborate:
5. **If yes to #4:** Has a plan been prepared to address the safety concern(s)? Yes  No  N/A   
Comments:
6. In what year was your *Dam Safety Review* last carried out by a qualified Professional Engineer?  
2011 (Ryzuk) OR check box if no Dam Safety Review has ever been carried on the dam – NO DSR
7. In what year was your *Operation, Maintenance & Surveillance Manual* last updated? 2014
- 8a. In what year was your *Dam Emergency Plan* (formerly EPP) last updated? 2014
- 8b. Have you submitted a copy of the updated DEP to the local emergency authority? Yes  No
9. Is the emergency contact information in your *Dam Emergency Plan* up-to-date? Yes  No
10. Has there been any land use development downstream of your dam in the last year that might affect the failure consequence classification? Yes  No  If Yes, please elaborate:

Additional comments or suggestions: Item 7, 8a/b & 9 in progress – complete by Q2 2017. Note that EPP has been shared with local emergency authority

**Submitted by:** Joshua Frederick, P.Eng

**Date:** Jan. 30, 2017

**Position:** Manager, CRD Environmental Engineering

**Phone:** 250-360-3097

**Email address:** [jfrederick@crd.bc.ca](mailto:jfrederick@crd.bc.ca)

**Water Management Branch**

3<sup>RD</sup> Floor, 395 Waterfront Crescent, Victoria BC Tel (250) 952 6790 Fax (250) 356 0605

Mailing Address: PO Box 9340 STN PROV GOVT Victoria BC V8W 9M1

Website: <http://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/dam-safety>



## 2016 DAM STATUS REPORT FORM FOR OWNERS OF HIGH, VERY HIGH & EXTREME CONSEQUENCE DAMS

**(2) Formal Inspection** is defined in the Dam Safety Regulation (Regulation) as “a thorough on-site inspection of the dam and dam site conducted by a person who is an owner of the dam or an agent of an owner of the dam and who is responsible for the safety of the dam”. The [Inspection & Maintenance of Dams](#) manual is available on the Dam Safety website and a Dam Inspection & Maintenance course is available through the BC Water & Waste Association ([www.bcwwa.org](http://www.bcwwa.org)). Many dam owners hire an engineering consultant to inspect their dams, but this is not a requirement. The minimum frequency for formal inspections is annually for high and very-high consequence dams and semi-annually for extreme consequence dams. A formal inspection report must be recorded and kept by the dam owner and must be available for review by the Dam Safety Officer (DSO) on request.

**(3) Site Surveillance** is defined in the Regulation as “the monitoring of a dam and the area surrounding or adjacent to the dam through visual observation, and if there is instrumentation relating to the dam, through the systematic collection of instrumentation readings and analysis and interpretation of the readings”. Site surveillance is usually performed on a weekly basis for all high, very high and extreme consequence dams; see Schedule 2 of the Regulation for the minimum frequency of safety activities. Site surveillance may be conducted at a reduced frequency to suit seasonal conditions (e.g. snow cover); however, these conditions and the reduced frequency must be described in the dam’s Operation, Maintenance & Surveillance Manual\*.

**(4 & 5) Dam Safety Concerns:** The DSO is available to discuss any concern you may have about the safety of the dam and can assist you to determine the severity of an issue. A dam owner must report any potential safety hazard to a DSO. Please see section 14, *Hazardous conditions*, and section 15, *Potential safety hazard*, of the Regulation for further actions required by the dam owner.

**(6) Dam Safety Reviews** (DSRs) are comprehensive formal evaluations by a qualified engineer conducted every 10 years for high and very high consequence dams and every 7 years for extreme consequence dams to determine whether an existing dam meets current engineering standards. DSRs shall be carried out in accordance with the Regulation, APEGBC’s DSR Guideline and the Canadian Dam Association (CDA) Guideline. A link to the APEGBC’s DSR Guideline is available at [www.apeg.bc.ca](http://www.apeg.bc.ca). The CDA Guidelines can be purchased at [www.cda.ca](http://www.cda.ca).

**(7 & 8) Operation, Maintenance and Surveillance (OMS) Manual & Dam Emergency Plan (DEP) Requirements:** Dam owners are required to have an OMS manual and a DEP (formerly Emergency Preparedness Plan (EPP)). The OMS and DEP must be reviewed and updated at least every 7 years for very high and extreme consequence dams, and at least every 10 years for high consequence dams. For guidance on the information to submit to the local emergency authority, refer to the [Guide & Template for Preparing a Dam Emergency Plan \(DEP\) in British Columbia](#) available on the Dam Safety website.

**(9) Emergency Contact Information:** Dam owners are required to annually review and, if necessary, revise the emergency contact information in their DEP, and submit revised information to the DSO and to the local emergency authority.

**(10) Downstream Conditions:** Dam owners must review conditions downstream of their dams annually and notify the DSO if there are changes (e.g. land development) that might result in a change in the failure consequence classification of the dam.

Dam owners must operate and maintain their dams in accordance with the *Water Sustainability Act* (WSA), the Regulation, any applicable authorization, and any order that is made under the WSA.

*\*Note: simplified versions of DEP and OMS for less complex dams may be acceptable (see templates in the Guidebook entitled [Inspection & Maintenance of Dams](#), available on the Dam Safety Website at: [www.gov.bc.ca/water](http://www.gov.bc.ca/water)).*

---

### Water Management Branch

3<sup>rd</sup> Floor, 395 Waterfront Crescent, Victoria BC Tel (250) 952-6790 Fax (250) 356 0605

Mailing Address: PO Box 9340 STN PROV GOVT Victoria BC V8W 9M1

Website: <http://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/dam-safety>