Dam Owner Annual Inspection Form Earthen Dams

Project Data

Dam Name: Lake Kayak Dam		
County: Snohomish	State Dam No. SN07-0199	
Owner Name: Mountain View Park Community Club		
Owner Address: MVPCC	Telephone No.: N/A	
PO Box 926 Duvall, WA 98019	E-mail address: info.mvpcc@gmail.com	
Inspected by: Andy Quast, Kacie Ciske, Audrey Spence, Molly Graham, Doug Linman		
Inspection Date: October 2, 2022	Weather: Dry, Clear weather	

Directions

- During inspection, check all boxes that apply. Fill in the overall condition of each structure and what actions will be taken to remedy any issues found. Mail or email a copy of the completed form to the Dam Safety Office.
- Mark approximate location of any problems on plan of dam footprint on page 6 and attach photos on page 7
- For concrete structures associated with your dam, check the "concrete in poor condition" box if you notice signs of settlement, misalignments, heaving, offset joints, cracks, or exposed reinforcements and make a note of what you have found in the line for overall condition.

Reservoir Data				
Reservoir Level at time of inspection 5 feet below dam crest				
Reservoir Outflow at time of	inspection <u>0</u> cfs or	gpm		
Condition of Dam (embank	kment, abutments, foundation)			
Dam crest Check all that apply:				
☐ low areas☐ horizontal misalignment	☐ surface cracking☐ ruts	□ animal burrows□ trees	□ brush	
Overall condition: Good				
Actions needed: Monitor and maintain				
Upstream face Check all that ap	oply:			
☐ slumps	☐ sinkholes	☐ animal burrows		
□ slides	☐ slope protection	□ trees		
□ scarps	☐ wave erosion	⊠ brush		
Overall condition: Good – ca	at tail/reed growth in shallow	v water at lake edge, unable	to cut growth as plants are	
Actions needed: Monitor ar	nd maintain			

Condition of Dam Cont.	(embankment, abutments, f	foundation)			
Downstream face and toe	Check all that apply:				
□ wet or soft areas□ slumps□ slides	□ scarps□ sinkholes□ change in slope	□ erosion□ unusual mover⊠ animal burrow		□ water-lo□ trees □ brush	oving vegetation
Is there seepage? ☐ Yes	⊠ No	If yes,			
Location of seep: Outflow	pipe	Is the seep?	⊠ clear	☐ turbid	□ N/A
Estimated flow: None		Is there sedime	ent? 🗆 Y	res ⊠ No	
Estimate seepage rate by m	leasuring the time it takes to	o fill a known volume coi	ntainer at t	he outlet pip	e.
Overall condition: <u>Good –</u>	outflow pipe has no activ	e flow			
Actions needed: Monitor a	and maintain – mountain	beaver burrows were	filled as ol	bserved.	
Open Channel Spillway					
	cı				
Spillway entrance and over Look at channel base, side s	slopes; concrete floor, sidew	•	all that apply		
 □ debris □ vegetation □ slides □ other obstructions □ movement □ cracks 	☐ deteriorat☐ settlemen☐ cavitation☐	ion	□ ripra □ wei	ap layer in po r boards in po er debris barr dition	or condition
Overall condition: Good -					
Actions needed: Monitor an needed, usually during special watershield growth observations.	oring and winter when lak				
Gates and gate controls Ch	eck all that apply: (leave blank if r	not applicable)			
☐ operable and working ☐ corrosion	☐ deteriorati☐ vandalism		□ annu		ice has been done
Overall condition: <u>Unknow</u> attempt of operation.	n- Gate not operated, ris	k of inability to close s	<u>lidegate is</u>	s too high to	<u>perform</u>
Actions needed: Replace of	outflow system in future.	Scope of project is defi	ned, vend	lor identified	<u>d, written</u>

project scope in hand. FEMA high hazard Dam grant pre-application submitted in 2022.

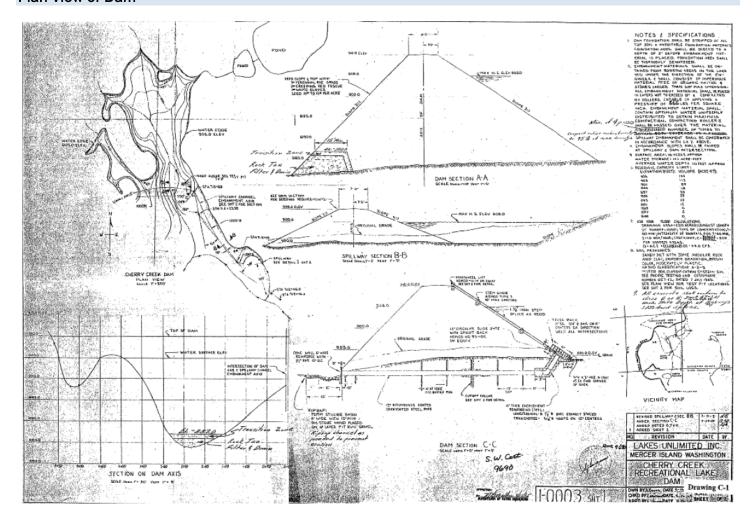
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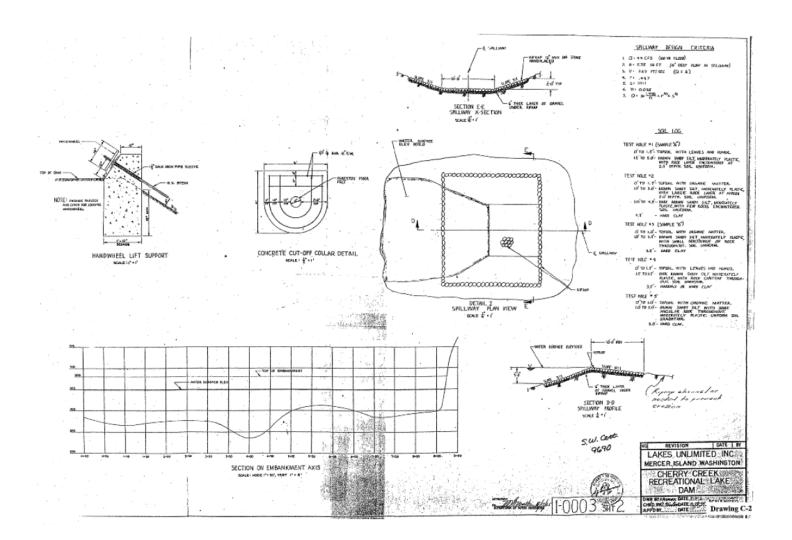
Outlet channel Check: channel base, sid	e slopes; concrete floor, sidewalls. Check	all that apply:			
□ debris	□ cracks	☐ gabions in poor condition			
□ vegetation	☐ deterioration	☐ riprap layer in poor condition			
□ slides	□ settlement	☐ seepage from under-drains or			
☐ other obstructions	☐ cavitation	along concrete exterior			
☐ concrete in poor condition	☐ erosion in earth or grass-lined				
☐ movement	channel				
Overall condition: Good – a few short logs along shoreline, water lily pads and watershield growth in collecting pool and along canal, a few standing trunks of dead alders in south end of canal/collecting pool being monitored.					
Actions needed: Monitor and maintain	n - budget for log securing or removal	efforts as needed.			

Open Channel Spillway or Weir Drop	Structure Cont.			
Spillway outfall or stilling basin Check all that apply:				
□ debris⋈ vegetation□ concrete in poor condition□ movement	□ cracks□ deterioration□ settlement□ erosion	☐ undermining☐ gabions in poor condition☐ riprap layer in poor condition		
Overall condition: Good – some grass	growth along edges of outflow poo	, no obstruction caused		
Actions needed: Monitor and maintai	n – trim vegetation			
Internal seepage/drainage controls (leave blank if not applicable)				
Piezometers: Able to locate? □ Yes ☒ No	Readings:			
In secure location? Yes No	Condition of casing:			
Overall condition: None installed				
Actions needed: Installation planned in future with seismic evaluation- FEMA Grant pre-app submitted in 2022.				
Emergency Action Plan (EAP) and Operation and Maintenance (O&M) Manual				
Date of EAP or last update on file with Ecology? Date: <u>Draft prepared 9/2022</u>				
Date of O&M Manual or last update on file with Ecology? Date: Final submitted 10/2022				
Drawing showing locations of hydraulic elements				



Plan View of Dam





Photographs





(Insert photographs)





Mail or email a copy of this completed form to the attention of the Dam Compliance Technician at Ecology's Dam Safety office:

By email: damsafety@ECY.WA.GOV

By mail: Washington State Dept. of Ecology

Dam Safety Office

Attn: Dam Compliance Technician

PO Box 47600

Olympia, WA 98504-7600

Problems found during your inspection?

If a problem is observed, please call the Dam Safety Office at (360) 407-6872 during business hours for guidance and assistance.

If it is an emergency call:

- 1. Call **911**
- 2. Call State Division of Emergency Management
 - a. Call the Duty Officer (available 24 hours/day) at 1-800-258-5990
 - b. Clearly state that this is a "dam safety emergency"

Would you like a customized inspection form?

If you have found that this form has sections that do not apply to your dam or there are aspects to your dam that are not captured in this form, contact the Dam Compliance Technician at (360) 407-6613 or damsafety@ECY.WA.GOV and we will create an Annual Inspection Form specific to your dam.

Helpful Documents and Information

Ecology's Dam safety website: https://ecology.wa.gov/Water-Shorelines/Water-supply/Dams

Documents found there:

- General information and dam ownership responsibilities
- Dam owner's guidance manual
- Impacts of animals on earthen dams
- Impacts of plants on earthen dams
- Burrowing animal guidance