

DLNR Dam Safety
Ka Pa'akai Pre-Assessment Form (Revised 9/13/23)

PROJECT INFORMATION (To be completed by the dam owner)

Dam Name: Kalihiwai

Dam ID No.: KA-0024

Dam Owner (name, title, company): Kalihiwai Ridge Community Association

Type of Project (e.g., removal, reduction, improvement): Removal

Brief Description of Project (as needed, attach diagrams, maps, etc.): The dam will be breached by constructing a notch in the middle of the embankment. Please see the attached construction plans.

TMK(s): (4) 5-2-022:003

Ahupua'a: Halele'a

PRE-SCREENED COMPLIANT ACTIVITIES (To be completed by the dam owner)

Yes	No	Compliant Activity
	☒	Repair and maintenance
	☒	Removing trees or vegetation
	☒	Valve replacement
	☒	Outlet modification
	☒	Perimeter fence installation
	☒	Service roadway installation
	☒	Embankment repair or improvement

Does the permit activity meet any of the pre-screened compliant activities? Yes _____ No ☒

If Yes, no further analysis will be required. Submit form to DLNR Dam Safety.

If No, the dam owner needs to complete the SCREENING ANALYSIS section.

See attached page for responses to questions.

SCREENING ANALYSIS (To be completed by the dam owner)

Provide responses to the following four screening questions:

1. Upon completion, will the proposed project result in a physical change of the geographical landscape in the area?

2. Upon completion, will the proposed project result in changes to the water flow frequency, volume, or path upstream of the dam facility, through the project site, or downstream of the project site? Include impacts during conditions such as severe storm events.

3. Upon completion, is there a possibility the project may impact "valued cultural, historical, or natural resources in the petition area?"

4. Upon completion, is there a possibility the project may change public accessibility to the dam facility or surrounding area?

✓ If AT LEAST ONE of the four questions above were answered Yes, Dam Safety will consult Aha Moku and/or the Po'o of the respective island to determine the likelihood of the proposed permit activity to affect the Ka Paakai Framework. If it is deemed that further investigation is required, the dam owner will conduct a Ka Pa'akai Consultation Assessment (KPCA). Otherwise, no further analysis will be required.

_____ If ALL of the four questions above were answered "No," no further analysis will be required and the dam owner will NOT need to perform a KPCA, subject to review and concurrence by DLNR and the Aha Moku Council.

SCREENING ANALYSIS RECOMMENDATIONS (To be completed by DLNR Dam Safety)

Is a Ka Pa'akai Consultation Assessment recommended?

Yes _____ Recommend the dam owner to perform a Ka Pa'akai Consultation Assessment

No ☒ Subject to approval by the Aha Moku Council.

Comments:

While removal changes the immediate community, there are no indications of cultural impacts or downstream effects. In addition, the changes would restore the historic water flow of the area.

Dam Safety Reviewer Name (Printed): Gina Belleau

Dam Safety Reviewer Signature: _____

CONCURRENCE & ACCEPTANCE OF SCREENING ANALYSIS RECOMMENDATIONS (To be processed by DLNR Dam Safety)

- ☒ Concur with the Ka Pa'akai Screening Analysis Recommendation
☐ Do not concur with the Ka Pa'akai Screening Analysis Recommendation

DLNR Chief Engineer Name (Printed): Gayson Ching

DLNR Chief Engineer Signature: _____

- ☒ Concur with the Ka Pa'akai Screening Analysis Recommendation
☐ Do not concur with the Ka Pa'akai Screening Analysis Recommendation

Aha Moku Executive Director (Printed): Leimana DaMate

Aha Moku Executive Director Signature: _____

☒ Attachments (Ka Pa'akai Pre-Assessment supporting documents)

1. Upon completion, will the proposed project result in a physical change of the geographical landscape in the area?
 - a. Yes. The dam will no longer retain water and the embankment will be modified by removing a portion of it and placing the excavated material on the upstream slope. A drivable concrete slab will be constructed and riprap will be placed within the breach section.
2. Upon completion, will the proposed project result in changes to the water flow frequency, volume, or path upstream of the dam facility, through the project site, or downstream of the project site? Include impacts during conditions such as severe storm events.
 - a. Yes. During storm events there will be changes to the water flow for approximately $\frac{1}{2}$ mile downstream of the current dam location, as the dam will no longer attenuate the flow from the watershed. About $\frac{1}{2}$ mile downstream, the flow reaches Kalihiwai River. Due to the timing of the peak flow from the dam watershed during a storm versus the timing of the peak flow from the Kalihiwai River watershed during the same storm, the removal does not cause an increase of peak flows of the Kalihiwai River during floods. Therefore, while there is some difference immediately below the dam, there is effectively no difference in amount of flooding downstream of the dam in the Kalihiwai river once this dam is removed.
3. Upon completion, is there a possibility the project may impact "valued cultural, historical, or natural resources in the petition area?"
 - a. No. Both a Reconnaissance Level Survey and a Historic American Engineering Record have been prepared for this dam as well as community engagement and input received by the dam owners during the design process.
4. Upon completion, is there a possibility the project may change public accessibility to the dam facility or surrounding area?
 - a. No. The design includes the construction of a new drivable access route across the bottom of the breach section to maintain access to the western side of the reservoir.