

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

LAND DIVISION P.O. BOX 621 HONOLULU, HAWAII 95809 Hanalei River Streamgage Relocation

> AQUACULTURE DEVELOPMENT PROGRAM AQUATIC RESOURCES BOATING AND OCEAN RECREATION CONSERVATION AND RESOURCES ENFORCEMENT CONVEYANCES FORESTRY AND WILDLIFE HISTORIC PRESERVATION LAND DIVISION STATE PARKS WATER RESOURCE MANAGEMENT

Ref.:PB:THE

NOV 1 0 1998

File: KA-2889

MEMORANDUM

To:

Gary Gill, Director

Office of Environmental Quality Control (OEQC)

From:

Dean Y. Uchida, Administrator Why.
Land Division, Department of Land and Natural Resources

Subject:

Final Environmental Assessment (EA)/Finding of No Significant Impact (FONSI) for Hanalei River Streamgage Relocation, Kauai; TMK parcels: (4)5-3-01:3, and 5-4-

02:16 & 31.

The Department of Land and Natural Resources has reviewed the comments received during the 30-day public comment period that began on June 23, 1998 for the subject project. We have determined that this project will not have significant environmental effects, V and have therefore issued a FONSI. Please publish this notice in the November 23, 1998 OEQC Environmental Notice.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the Final EA for the project. The summary for this project has not changed from that noted in the Publication Form for the draft EA. Please contact Tom Eisen of our Land Divisions's Planning Branch at 587-0386 if you have any questions.

Enclosures

JORTHOD TO AN 万县沿进"。"

Barry Hill

75: SP 01 YBV 86

WE WELL

1998-11-23-KA-FEA-Hanalei River FILE COPY Streamgage Relocation FILE COPY FINAL ENVIRONMENTAL ASSESSMENT

HANALEI STREAMGAGE RELOCATION

County of Kauai, Hanalei District TMK 5-4-02-16, 5-4-02-31, 5-3-01-3

submitted by:

U.S. Geological Survey

Honolulu, Hawaii

October 28, 1998

1. Identification of applicant or proposing agency

William Meyer, District Chief U.S. Geological Survey 677 Ala Moana Blvd., Suite 415 Honolulu, HI 96813 (808) 522-8290

2. Identification of approving agency, if applicable

State of Hawaii Department of Land and Natural Resources Land Management Division P.O. Box 621 Honolulu, HI 96809

3. Identification of agencies consulted in making assessment

Letters requesting comments on the proposed project were sent to the following agencies on December 22, 1997:

County of Kauai

Fire Department
Planning Department
Department of Public Works
Water Department

State of Hawaii

Department of Health Department of Land and Natural Resources, Division of Historic Preservation Office of Hawaiian Affairs

Replies have been received from the County of Kauai Fire Department, Planning Department, Department of Public Works, and Water Department, and from the State Department of Health and Office of Hawaiian Affairs. Copies of these replies are attached.

Nancy McMahon of the State Division of Historic Preservation has inspected the proposed gage location and provided a written summary of her findings (attached).

Copies of letters or memos from five agencies commenting on the Draft Environmental Assessment were made available to us by the Department of Land and Natural Resources. These letters and memo, and our responses, are also included as attachments. In response to an agency comment, we consulting with the U.S. Department of Agriculture Natural Resources Conservation Service in Lihue by telephone (contact: Mr. Ron Peyton).

4. General description of the action's technical, economic, social, and environmental characteristics

The U.S. Geological Survey (USGS) has operated a streamgage on the Hanalei River continuously since 1962 (Figure 1). This gage is operated in cooperation with the State of Hawaii Commission on Water Resource Management, and provides data that are used in monitoring river conditions and allocating water rights. The Hanalei River is presently diverted immediately downstream of the gage for taro production and wildlife habitat. The river flows through a National Wildlife Refuge downstream of the gage, and is heavily used for recreation. The Hanalei River was designated an American Heritage River by President Clinton in July, 1998.

During a flood in November, 1995, the river overtopped its banks and carved a new channel that bypassed the streamgage. Presently, about one-third of the river's flow is diverted into this new bypass channel. The existing gage is therefore of limited use in determining the total flow of the river.

The USGS proposes to relocate the streamgage to a site approximately 3,000 feet upstream of the present location so that the entire flow of the river can be measured. The proposed location (Figure 1) is the only site along the river that has adequate gaging conditions and flow comparable to the existing gage prior to the bypass. This relocation would allow the USGS to once again provide accurate streamflow data for this important river.

TECHNICAL--

The proposed gage would be similar to the existing gage, which uses a gas-feed pressure transducer sensing system housed in a wooden shelter. Dimensions and plans for the proposed gaging structures are shown in Figures 2 and 3. Property boundaries are shown on Figure 4. Structures would include a fiberglass or aluminum gage house on the left bank of the river, a metal conduit for the gas (nitrogen) line leading from the gage house to the river, a concrete anchor for the gas orifice and outside staff plate at the streambank, a crest-stage gage consisting of a 2-inch metal pipe installed vertically along the streambank and set into concrete, and a cableway for high-flow measurements anchored on the right bank to a large mango tree and anchored on the left bank to an A-frame truss with a backstay set in concrete. A trail about 300 feet in length would be needed to connect the streamgage to the existing trail used by hikers and hunters.

Most of the work would be done by hand. Chain saws, gas generators, and power saws and drills would be needed for short periods during construction. Helicopter sling loads would be necessary to deliver concrete. Excavation within the channel would total approximately one cubic yard to allow pouring of concrete anchors for the gas orifice and crest-stage gage. Because these anchors

would extend below the low-flow water surface, the forms would be built to prevent release of wet concrete into the river. The forms would extend above the water surface and would be caulked and sealed. An excavation of roughly 10 cubic yards would be needed for the cableway backstay anchor, about 50 feet away from the streambank. Fill in the channel would be limited to the previously-described concrete anchors, totalling about one cubic yard. The gage house would be prefabricated from fiberglass or aluminum siding and bolted to a concrete pad. Dimensions of the gage house would be 4' x 4' x 8'. The gage house would be painted to blend into the surrounding vegetation, using water-soluble paint. No concrete, paint, or wash water would be allowed to mix with the water in the river.

Equipment to be kept within the gage house includes a nitrogen tank, gas regulator, pressure transducer, electronic data logger, gel-cell batteries, and solar panels.

The cableway would be built to standard USGS specifications to ensure the safety of USGS personnel. The cable would be a 1 1/8" wire rope stretched between a mango tree on the right bank and a steel A-frame on the left bank. The A-frame would be secured by 1/2" wire rope backstay set into a 10-cubic yard mass anchor. Because the site is not accessible by backhoe, the excavation for the mass anchor would be done manually, and the excavated material stored on site. The cable would be tightened with a cable hoist until the correct amount of sag is obtained. The cable would be secured with saddle clamps, 5 on each end of the cable, torqued to 250 foot-pounds each. The cable car would be kept locked to prevent use by unauthorized persons. A wooden landing platform would be built next to the A-frame on the left bank.

The existing gage house, gas line, and cableway would be removed from the present streamgage location. All salvaged materials would be used at the new upstream site.

Periodic maintenance of the streamgage would be required. Maintenance normally would be performed every 6 to 8 weeks, and would include changing of nitrogen tanks and manual cutting of encroaching vegetation. Occasionally, repainting of the gage house and cable marks would be required.

ECONOMIC--

The relocation of the streamgage would itself have very limited direct economic impacts. A few building supply and aircraft service businesses would have increased income totalling a few thousand dollars. However, the streamgage relocation would provide for a continuation of streamflow data collection and publication for the Hanalei River. These data could potentially have economic effects because decisions on water allocations are often based on streamflow records. For example, the Commission on Water Resource Management might allow increased diversions for taro production if streamflow records indicated that the diversions would be small relative to total streamflow. However, the actual economic effects of having streamflow data available for this river cannot be predicted.

SOCIAL--

Social impacts of the proposed action would also be very minor, except indirectly as streamflow data collected at the station affect social conditions through regulatory actions by other agencies. The streamgage could potentially be modified to provide flood warning capabilities, although at present the relocation plans do not include such capabilities. Streamflow data may be of use to recreational boaters. The recent designation of the Hanalei River as an American Heritage River will likely increase public attention and interest in streamflow data for this river.

ENVIRONMENTAL--

The proposed relocation would affect small areas of the river bed and banks. Effects on channel stability and water quality would be negligible owing to the small areas affected. Vegetation at the new location and along the trail, primarily native Hau trees, would be trimmed. An inspection of the proposed gage location by a USGS biologist determined that no threatened or endangered plant or animal species would be adversely affected by the gage relocation. Aethetics would be affected at both the existing and proposed sites. No archaelogical sites were noted at the proposed gage location during an inspection by Nancy McMahon of the State Historic Preservation Division. A Best Management Practices Plan has been prepared as part of the Section 401 Water Quality Certification process, and is listed below. This plan would minimize adverse environmental effects.

5. Summary description of the affected environment, including suitable and adequate location and site maps

The affected environment includes both the existing and proposed streamgage locations (Figures 1 and 4; photos 1-4). Both locations are in undeveloped forest areas with mixtures of native and introduced vegetation. The existing gage is within 1,000 feet of several residences. The proposed gage location is about 1,500 feet from the nearest home. Neither location is accessible by vehicle. An existing trail passes within about 300 feet of the proposed gage location.

The Hanalei River in the area of the existing and proposed gages flows through an alluvial channel with extensive floodplain development. The land surface on the flood plain is very gently sloping. The hillslopes on both sides of the flood plain are forested and steep. The river has a meandering channel form. Banks are between 4 and 12 feet high and are generally steep on the outside of meander bends and gently sloping on the point bars on the inside of bends. The steep banks on the outside of the meander bends are composed of cobbles in a matrix of clay, support hau and Java plum, and are moderately erodible. Banks on the point bars are composed of gravel and sand, and support thick growths of grass and forbs. The channel bed has a pool-riffle structure. Bed material consists of predominantly cobbles and boulders with some gravel and smaller amounts of sand. The streambed is approximately 100 feet wide, and is wide enough that stream-side vegetation does not provide 100% shade canopy cover.

As noted in item 4, no threatened or endangered plants or animals, and no archaelogical sites,

would be affected by the proposed relocation. The U.S. Fish and Wildlife has classified the area around the existing gage as palustrine emergent persistent seasonal and riverine upper perennial open water permanent wetland (National Wetlands Inventory, Hanalei quadrangle). The area around the proposed gage is classified as palustrine forested broad-leaved evergreen seasonal and riverine upper perennial open water permanent wetland.

6. Identification and summary of major impacts and alternatives considered, if any

IMPACTS:

The proposed relocation would affect small areas of the river bed and banks. Effects on channel stability and water quality would be negligible owing to the small areas affected. One cubic yard of concrete would be added to the stream channel and about 6 cubic yards would be used on the flood plain surface. On-site disposal of excavated material would result in minor increases in flood-plain elevations at disposal sites. Vegetation at the new location and along the trail, primarily native Hau trees, would be trimmed. Aethetics would be affected at both the existing and proposed sites.

ALTERNATIVES CONSIDERED:

- 1. Discontinue streamgage--This alternative would have little direct impact on the physical and biological environment, but would not provide for continued collection of streamflow data, which may be of great importance in future resource management decisions. This alternative would still require some disturbance of the river for removal of the existing streamgage.
- 2. Continue to operate gage in its existing location—This alternative would have the least disturbance to the river and associated habitat, but would leave a significant and variable amount of water flowing unmeasured around the streamgage. High-flow measurements could not be made because the field crew cannot cross the bypass channel at high flow. The accuracy of the streamflow records would be reduced beyond generally acceptable levels. It is likely that within a few years the river will deepen the bypass channel and increasingly divert water from the meander bend where the gage is presently located. If this happens, the gage will become useless.
- 3. Relocate station but abandon cableway--This alternative would involve some disturbance to the river and associated habitat, but would avoid the additional disturbance related to cableway construction. On-site disposal of excavated material would be minimized. Concrete fill on the banks would not be necessary except for the gage house pad. However, without a cableway, medium and high flow measurements would have to be made by indirect methods, which are more expensive and less accurate than direct methods.

7. Proposed mitigation measures, if any

Best Management Practice Plan

- 1. All work in the stream channel shall be done during low-flow conditions.
- 2. Forms for the concrete work in the stream will extend above the water surface, and be sealed to prevent release of wet concrete into the river.
- 3. Fine-mesh filter cloth shall be deployed by hand so as to surround the construction site and entrap any concrete that escapes from the form. The cloth will be unrolled, stretched around the site, lowered to the streambed, and anchored with rocks. Wooden or metal stakes will then be used to raise the unanchored edge of the cloth to the stream surface. The decrease in stream velocity resulting from the placement of the cloth will cause much of the supsended solids to be deposited on the stream bed or on the cloth itself, where they can be removed with shovels and plastic buckets, placed in plastic containers, and removed from the site.
- 4. Mixing of concrete and paint will be done at least 30 feet from the streambank. No concrete or paint wash water will be allowed to enter the stream.
- 5. Surface preparation and painting shall only be done during dry weather.
- 6. Applicant will ensure that all excess construction materials are removed from the site upon completion of construction.
- 7. Applicant will provide personnel to regularly maintain the gaging station.
- 8. No chemicals will be stored on site, and no herbicides will be used to control vegetation.

8. Determination (based on Significance Criteria of 11-200-12 HAR)

- 1. The proposed action does not involve an irrevocable commitment to loss or destruction of any natural or cultural resource.
- 2. The proposed action does not curtail the range of beneficial uses of the environment.
- 3. The proposed action does not conflict with the state's long-term environmental policies, which, as set forth in Chapter 344, HRS, include conservation of natural resources, enhancing the quality of life, improvement of the quality of life through diverse economic activities, establishing communities in harmony with the natural environment, and establishing a commitment to protect and enhance Hawaii's environment.
- 4. The proposed action does not substantially affect the economic or social welfare of the community or state.

- 5. The proposed action does not substantially affect public health.
- 6. The proposed action does not involve substantial secondary impacts, such as population changes or effects on public facilities.
- 7. The proposed action does not involve a substantial degradation of environmental quality.
- 8. The proposed action does not have a cumulatively considerable effect upon the environment or involve a commitment for larger actions.
- 9. The proposed action does not substantially affect a rare, threatened, or endangered species or its habitat.
- 10. The proposed action will not detrimentally affect air or water quality or ambient noise levels except for brief periods during construction.
- 11. The proposed action is within a flood plain but is unlikely to suffer serious damage and will not adversely affect the environment.
- 12. The proposed action will not substantially affect scenic vistas.
- 13. The proposed action will not require substantial energy consumption.

9. Findings and reasons supporting determination

- 1. The proposed action does not involve an irrevocable commitment to loss or destruction of any natural or cultural resource. The action will not adversely affect sites of ecological or cultural significance. Flora and fauna have been surveyed, and no rare, threatened or endangered species were observed within the project area. The project location was examined for sites of cultural significance, and none were found.
- 2. The proposed action does not curtail the range of beneficial uses of the environment. The action would not affect any current or likely beneficial use of the environment. The area affected by the project action is small, and does not include ecologically or culturally sensitive features. The action would not limit water quality, aquatic habitat, terrestrial habitat, or recreational use of the area.
- 3. The proposed action does not conflict with the state's long-term environmental policies, which, as set forth in Chapter 344, HRS, include conservation of natural resources, enhancing the quality of life, improvement of the quality of life through diverse economic activities, establishing communities in harmony with the natural environment, and establishing a commitment to protect and enhance Hawaii's environment. The data provided by the proposed action would in fact benefit natural resource conservation and economic activities by providing the Commission on Water Resource Management with improved streamflow information for planning and regulatory pur-

poses.

- 4. The proposed action does not substantially affect the economic or social welfare of the community or state. A positive effect on economic and social welfare is a likely result of the proposed action, which will provide improved hydrologic data for flood and water-resource management.
- 5. The proposed action does not substantially affect public health. The existing cableway will be dismantled so as to remove a potential public-safety threat, and the relocated cableway will be secured to deter use by unauthorized persons. Flood information provided by the proposed action could increase public safety in the Hanalei Valley.
- 6. The proposed action does not involve substantial secondary impacts, such as population changes or effects on public facilities. No population changes are anticipated as a result of gage relocation. No public facilities are located near the existing or proposed gage locations.
- 7. The proposed action does not involve a substantial degradation of environmental quality. The proposed action would affect a very small area in relation to the size of the watershed. The degree of land disturbance and the amounts of materials involved are not large enough to substantially degrade environmental quality.
- 8. The proposed action does not have a cumulatively considerable effect upon the environment or involve a commitment for larger actions. The proposed action would not create a need for additional streamgages on the same stream.
- 9. The proposed action does not substantially affect a rare, threatened, or endangered species or its habitat. A field survey by Anne Brasher, PhD., USGS biologist, indicated no rare, threatened, or endangered species in the project location.
- 10. The proposed action will not detrimentally affect air or water quality or ambient noise levels except for brief periods during construction. Power equipment and helicopters would be used, and these would temporarily increase ambient noise levels. Water quality will be protected with a Best Management Plan that is expected to prevent unintended discharges to the stream.
- 11. The proposed action is within a flood plain but is unlikely to suffer serious damage and will not adversely affect the environment. Stream gages, by nature of their function, must be located near streams, frequently on flood plains. It is unlikely, but possible, that a flood flow could reach a stage high enough to destroy the proposed gaging structures. This would require replacement of the structures, but would not threaten human life or private property.
- 12. The proposed action will not substantially affect scenic vistas. The gage would be located in thick vegetation along the stream, and would be difficult to see from more than 100 feet away.
- 13. The proposed action will not require substantial energy consumption. Small amounts of fuel would be needed during construction for power equipment, motor vehicles, and helicopters. Bimonthly field visits would require small amounts of fuel for travel between Lihue and the trail-head. The gage itself would be solar-powered, and would not require consumption of fuel or elec-

tricity.

10. Agencies to be consulted in the preparation of the EIS, if applicable

N/A

11. List of all permits and approvals (federal, state, county)

Department of the Army permit, NWP authorization 33 CFR Part 325, Appendix A, Paragraph B.5, Scientific Measuring Devices--application submitted to Corps of Engineers on February 6, 1998, approved July 7, 1998.

Section 401 Water Quality Certification--application submitted to Department of Health on February 6, 1998, approved July 7,1998.

Stream Channel Alteration Permit--application submitted to Commission on Water Resource Managment on February 6, 1998.

County of Kauai Special Management Area Permit--not applicable.

Coastal Zone Management Permit--not applicable.

12. Responses to comments received under early consultation provisions

Letters received in the early consultation process are attached to this draft environmental assessment. Our responses are listed below.

Department of Health: We have submitted an application for Section 401 water-quality certification to the Department of Health. This application includes a Best Management Plan and a monitoring plan.

Office of Hawaiian Affairs: No comments at this time, no response needed.

State Historic Preservation Division: Letter indicates proposed project will have no effect on significant historic sites, no response needed.

Kauai County Department of Water: Letter indicates no objections, no response needed.

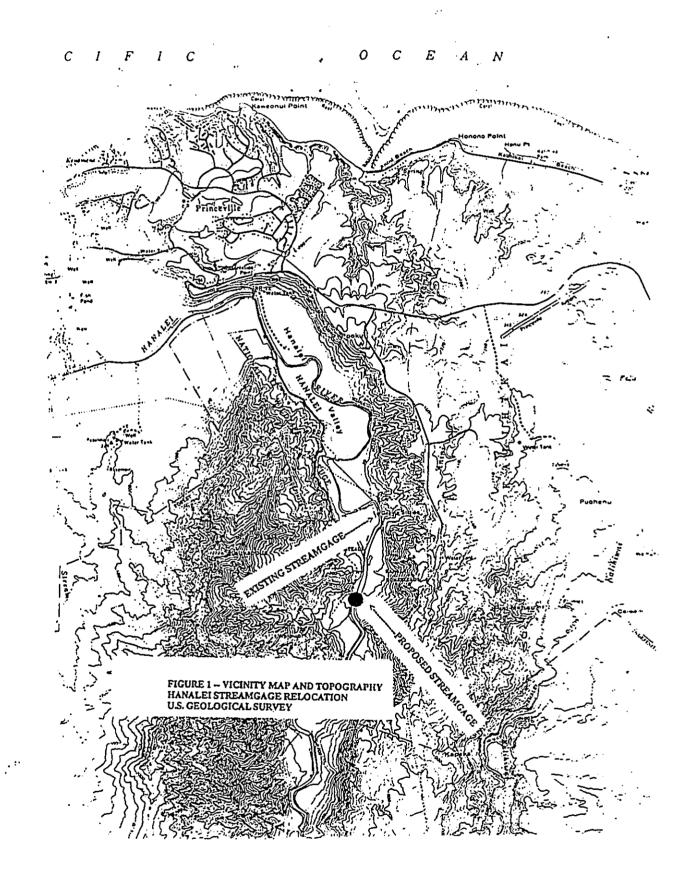
Kauai County Department of Public Works: The proposed project is intended to comply with flood plain management regulations. We have contacted the agencies suggested in the letter.

Kauai County Fire Department: Letter indicates no negative impacts for proposed project, no

response required.

Kauai County Planning Department: Project locations are outside of the Special Management Area (SMA), and no SMA permit is required.

FIGURES



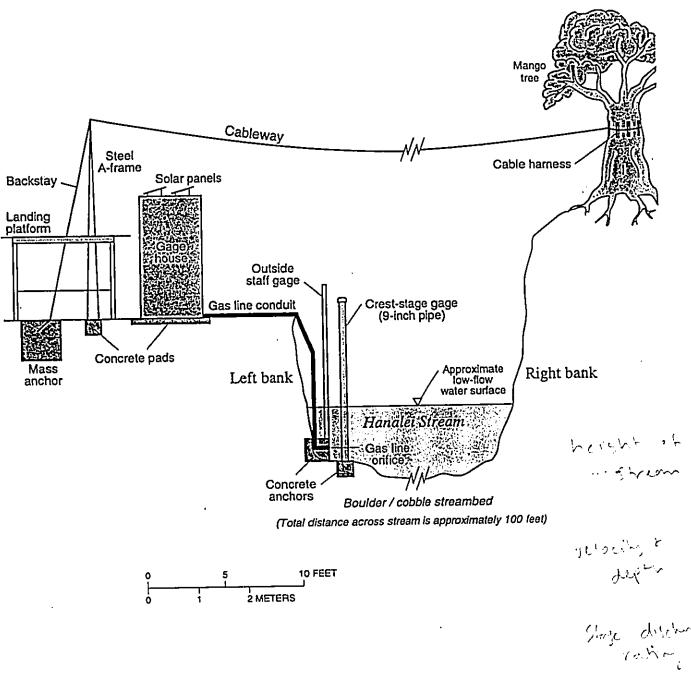


Figure 2. Typical cross section (view downstream) U.S. Geological Survey Hanalei River stream gage relocation.

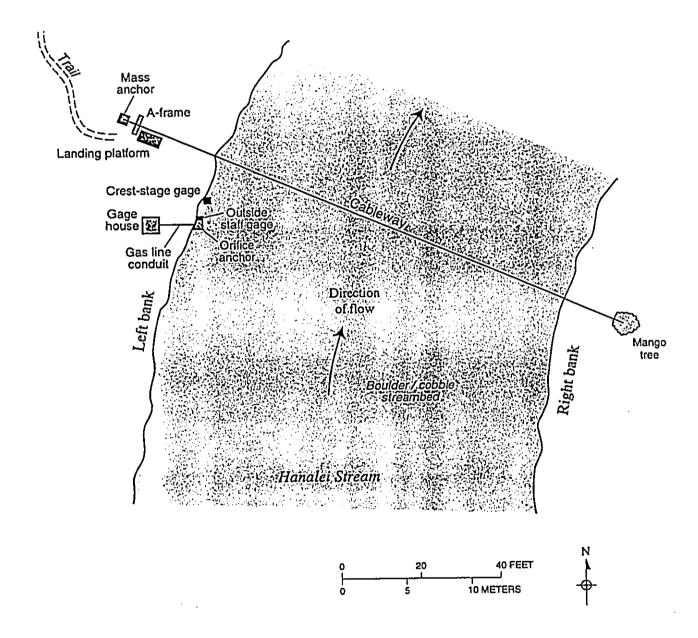
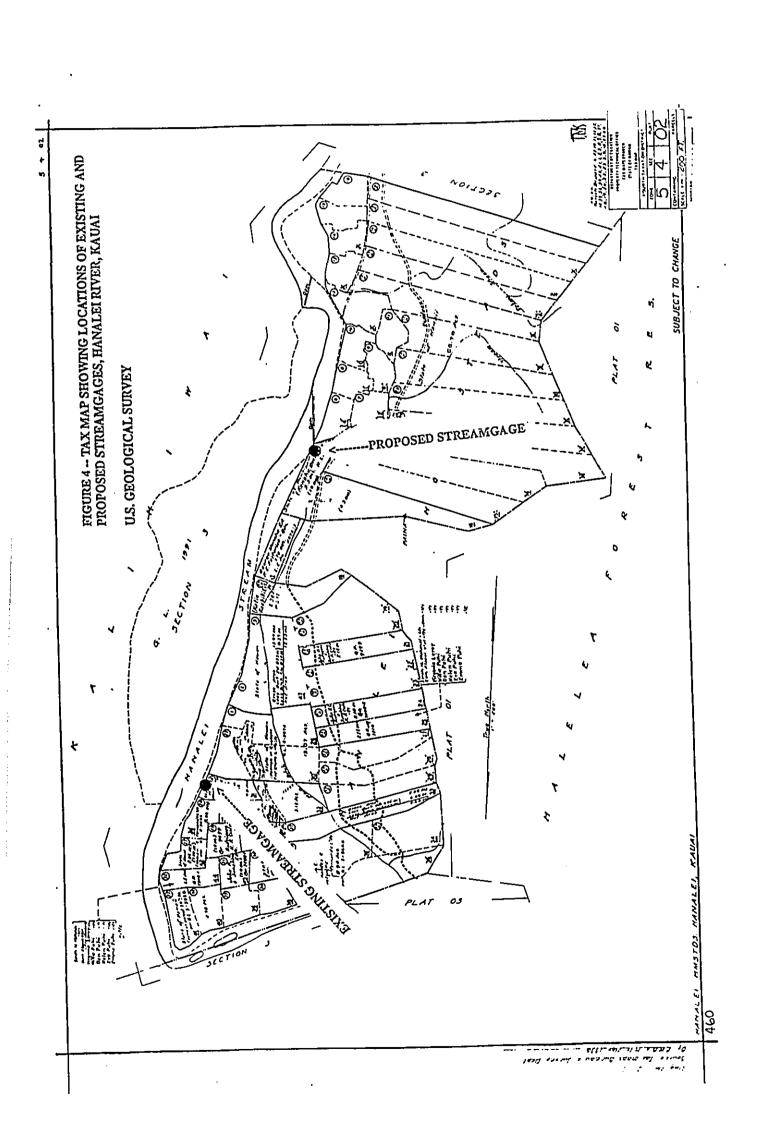


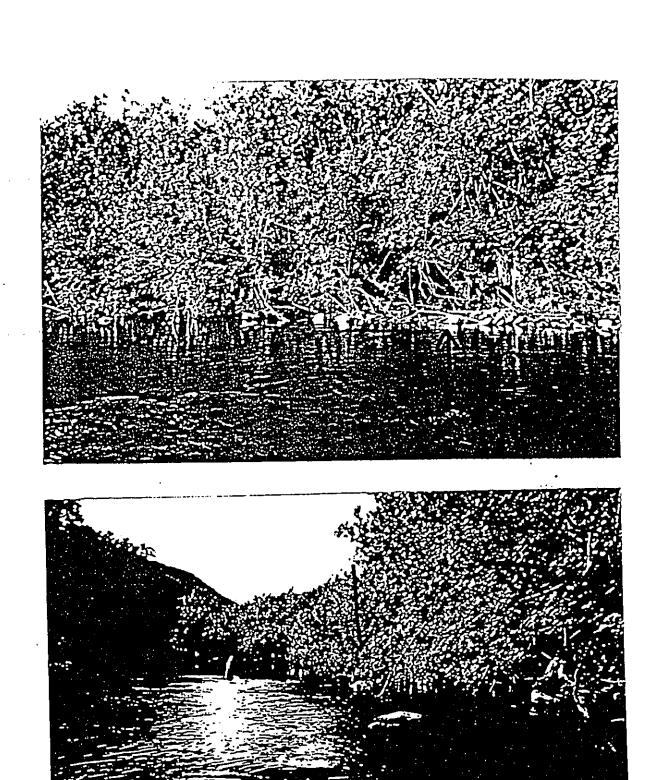
Figure 3. Plan view drawing U.S. Geological Survey Hanalei River stream gage relocation.

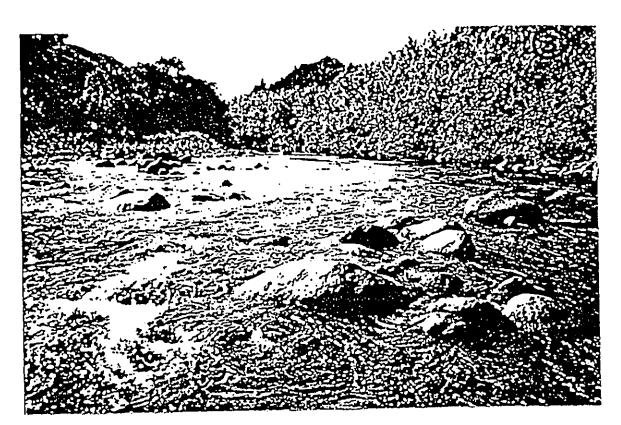


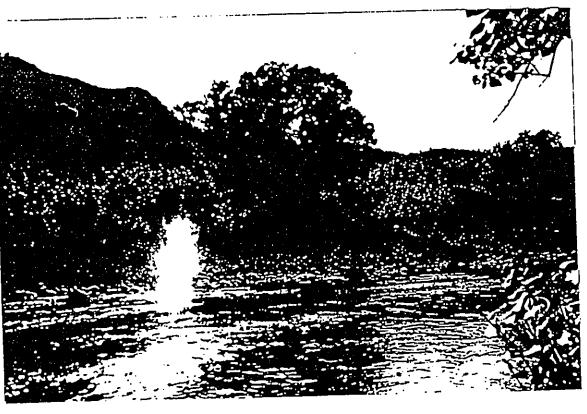
PHOTOGRAPH CAPTIONS

- 1. West (left) bank of river, arrow marks location of gas-line orifice, gage house would be built on the bank above the arrow.
- 2. View upstream, arrow marks approximate gage location.
- 3. View upstream toward proposed gage location, showing general character of channel.
- 4. Mango tree on east (right) bank to be used as cableway anchor.

(all photos by R.I. Taogoshi, USGS; originals submitted with Draft Environmental Assessment to Land Division, DLNR)







LIST OF PLANTS

To: Barry Hill, Asst District Chief From: Anne Brasher, Aquatic Ecologist

Subject: Survey of proposed gage site on Hanalei River, 1/23/98

The predominant plant species covering the bank in this area was Hau (Hibiscus tiliaceus). Additional plant species observed are listed below. I also checked for native damselfly larvae (Megalagrion sp.) and native snails (Lymnaeidae), but found none.

Family	Species	Common name
FERNS Dennstaedtiaceae Gleicheniaceae Polypodiaceae	Microlepia strigosa Dicranopteris linearis Phymatosorus scolopendria	palapalai staghorn fern laua'e
MONOCOTS Commelinaceae Gramineae Orchidaceae Zingiberaceae	Commelina diffusa Coix lachryma-jobi Spathoglottis plicata Hedychium sp.	honohono Job's tears orchid ginger
DICOTS Malvaceae Melastomataceae Myrtaceae Verbenaceae	Hibiscus tiliaceus Clidemia hirta Syzygium cumini Lantana camara	hau clidemia Java plum lantana

COPIES OF LETTERS RECEIVED DURING EARLY CONSULTATION

MARYANNE W. KUSAKA



PLANNING DEPARTMENT

DEE M. CROWELL PLANNING DIRECTOR IAN K. COSTA DEPUTY PLANNING DIRECTOR

TELEPHONE (808) 241-6677 FAX (808) 241-6699

July 7, 1998

Barry Hill U.S. Geological Survey Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, HI 96813 U.S. GEOLGGICAL SURVEY
WATER RESOURCES DIVISION
HONOLULU, HAWAII

JUL 1 5 1998

RECEIVED

Subject .

Conservation District Use Application KA-2889 Relocation of Hanalei River Streamgage, Kauai

Dear Mr. Hill:

Thank you for the opportunity to comment on the above referenced project. The existing streamgage location, and the proposed relocation site are outside of the County of Kauai Special Management Area (SMA), and therefore, an SMA Permit is not required from our agency.

Please be advised that there may be additional government agency requirements, and it shall be the applicant's responsibility to resolve those requirements with the respective agencies. Feel welcome to contact George Kalisik of my staff at 241-6677 if you have any questions.

Sincerely,

Dee M. Crowell Planning Director

c: Tom Eisen, DLNR-Land

MARYANNE W. KUSAKA MAYOR



DAVID K. SPROAT

COUNTY OF KAUA'I

FIRE DEPARTMENT MO'IKEHA BUILDING 4444 RICE STREET, SUITE 295 LIHU'E, KAUA'I, HAWAI'I

January 26, 1998

Mr. Barry Hill
Assistant District Chief
United States Department of the Interior
U.S. Geological Survey
Water Resources Division
677 Ala Moana Blvd., Suite 415
Honolulu, Hawaii 96813

RE: Relocation of Hanalei River Streamgage

Dear Mr. Hill:

I am in agreement with the need to relocate the Hanalei River streamgage to its proposed new site and foresee no negative impacts regarding this move.

I concur and support this project based on your history of good work.

Sincerely,

David K. Sproat

Fire Chief

MARYANNE W KUSAKA



CESAR C. PORTUGAL
COUNTY ENGINEER
TELEPHONE 241-6600

RUSSELL SUGANO ACTING DEPUTY COUNTY ENGINEER TELEPHONE 241-6631

AN EQUAL OPPORTUNITY EMPLOYER COUNTY OF KAUAI

DEPARTMENT OF PUBLIC WORKS
4444 RICE STREET
MO'IKEHA BUILDING, SUITE 275
LIHU'E, KAUA'I, HAWAI'I 96766

PW12.208

January 14, 1998

United States Department of Interior U.S. Geological Survey Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

Attention: Mr. Barry Hill

Gentlemen:

SUBJECT: HANALEI RIVER STREAM GAGE RELOCATION

Reference is made to your letter dated December 19, 1997 which requests our comments on the subject stream gage relocation. The stream gage, shelter and appurtenant facility is not considered a building and no building permit will be required. However, your agency as well as the County is mandated by federal laws under the National Flood Insurance Program to provide proper flood plain management especially when work is in the floodway of the Hanalei River. Consequently, we are requesting that your agency assess and develop the project to comply with the flood plain management regulations. We also recommend that you consult with other agencies such as the Department of Land and Natural Resources, Department of Health and the Corp of Engineers for requirements to develop a project in the waterway of the Hanalei River.

Thank you for the opportunity to offer our comments. Should you have any questions, please feel free to contact Mr. Wallace Kudo of my staff at (808) 241-6620.

Very truly yours,

County Engineer

WK/cu

DEPARTMENT OF WATER

County of Kauai

"Water has no Substitute -- Conserve It!"

January 2, 1998

Mr. Barry Hill, Assistant District Chief U.S. Geological Survey Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, HI 96813

Dear Mr. Hill:

SUBJECT:

U.S. Geological Survey - Draft Environmental Assessment, Relocation

of Hanalei River Streamgauge, Hanalei Valley, Kauai, Hawaii

Thank you for the opportunity to provide comments on the proposed Draft Environmental Assessment (EA).

The existing County Hanalei Water System service area is located makai of Kuhio Highway, including Hanalei town and the coastal area of Hanalei Bay. At the present time, we do not have any objections to the proposed action.

If you have any questions, please call Gregg Fujikawa at (808) 245-5416.

Sincerely,

Ernest Y. W. Lau

Manager and Chief Engineer

GF:ls

C:\..\ls\hillusgs.doc



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 96813

REF:HP-AMK

FEB - 9 1998

Mr. Barry Hill USGS 677 Ala Moana Blvd., Ste. 415 Honolulu, Hawaii 96813

Dear Mr. Hill:

SUBJECT:

National Historic Preservation Act Review - Section 106

Compliance, and Draft EA for USGS

Installation of Stream Gage, Hanalei River, Kauai

On January 23, 1998, our staff archaeologist and USGS staff inspected the project area. Based on the locations for the gage (along the shoreline bank of Hanalei River, where no historic sites exist), we concur with your determination that this project will have "no effect" on significant historic sites.

If you have any questions, please call Nancy McMahon 742-7033.

Aloha,

MICHAEL D. WILSON, Chairperson and State Historic Preservation Officer

NM:amk

c. Advisory Council, Western Region

MICIAEL D. WILSON, CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

GILBERT COLOMA-AGARAN

AQUACULTURE DEVELOPMENT PROGRAM

AQUATIC RESOURCES CONSERVATION AND

RESOURCES ENFORCEMENT CONVEYANCES FORESTRY AND WILDLIFE HISTORIC PRESERVATION

DIVISION
LAND DIVISION
STATE PARKS
WATER AND LAND DEVELOPMENT

LOG NO: 20923 DOC NO: 9801NM07



STATE OF HAWAI'I

OFFICE OF HAWAIIAN AFFAIRS

711 KAPI'OLANI BOULEVARD, SUITE 500 HONOLULU, HAWAI'I 86813-5249 PHONE (808) 594-1888 FAX (808) 594-1865 January 06, 1998

Mr. Barry Hill U.S. Geological Survey Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, HI 96813

Subject: Preparation of a Draft Environmental Assessment (DEA) for relocation of

Hanalei River streamgage

Dear Mr. Hill:

Thank you for your letter requesting comments for the preparation of a Draft Environmental Assessment (DEA) for the relocation of the Hanalei River streamgage.

The Office of Hawaiian Affairs (OHA) has no comments at this time to the proposed relocation. But OHA intends to thoroughly review the DEA once the document is available for public review. Please contact Colin Kippen (594-1938), Officer of the Land and Natural Resources Division, or Luis A. Manrique (594-1758), should you have any questions on this matter.

Sincerely yours,

Randall Ogata Administrator Colin Kippen

Officer,

Land and Natural Resources Division

cc Board of Trustees



STATE OF HAWAII DEPARTMENT OF HEALTH P.O. BOX 3378 HONOLULU, HAWAII 95801 January 26, 1998

LAWRENCE MIKE

In reply, please refer to

98-001/epo

Mr. Barry Hill U.S. Geological Survey Water Resources Division 677 Ala Moana Boulevard, Suite 415 Honolulu, Hawaii 96813

Dear Mr. Hill:

Subject: PRE-ENVIRONMENTAL ASSESSMENT

Relocation of the Hanalei River Streamgage

Hanalei River, Kauai, Hawaii

Thank you for allowing us to review and comment on the subject project. We have the following comments to offer:

Clean Water Branch

The present and proposed locations of the streamgage are both classified by the Department of Health as "Class 1.b, Inland Waters" in accordance with Hawaii Administrative Rules (HAR), Chapter 11-54, "Water Quality Standards," Section 11-54-05.1(b).

Site-specific Best Management Practices (BMPs) shall be properly implemented for the removal and installation of the gage facilities to minimize the potential adverse impacts resulting from the construction activities. An applicable monitoring plan shall also be implemented to properly evaluate the adequacy of the applied BMPs and to identify any adverse construction impacts to the Hanalei River at both the present and the new locations.

An individual Section 401 Water Quality Certification application is required for this project. For further details, please contact Mr. Edward Chen of the Clean Water Branch at 586-4309.

sincerely,

Brund Ladenar BRUCE S. ANDERSON, Ph.D.

Deputy Director for Environmental Health

c: CWB

COPIES OF LETTERS AND MEMOS COMMENTING ON DRAFT ENVIRONMENTAL ASSESSEMENT, AND RESPONSES

Division of Forestry & Wildlife

1151 Punchbowl Street, Rm. 325 ● Honolulu, HI 96813 ● (808) 587-0166 ● Fac (808) 587-0160

June 25, 1998

MEMORANDUM

TO:

Tom Eisen, Planner

Division of Land Management

THRU:

Dean Uchida, Administrator

Division of Land Management

FROM:

Michael G. Buck, Administrator Division of Forestry and Wildlife

SUBJECT:

CDUA (Departmental Permit) File #KA-2889 (D), Relocation of Hanalei River Stream gauge, Hanalei, Kauai TMK 5-4-02:16 & 31; 5-3-01:03.

We have reviewed this proposal with respect to its impacts on the natural resources and endangered species in particular. The draft EA shows no threatened and endangered plant or animal species will be affected by the stream gauge relocation. Therefore, we have no objections to the proposed relocation of Hanalei River Stream gauge by the U.S. Geological Survey.

C: Kauai DOFAW



United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

October 23, 1998

Mr. Michael Buck, Administrator State of Hawaii Department of Land and Natural Resources Division of Forestry and Wildlife 1151 Punchbowl Street, Room 325 Honolulu, Hawaii 96813

Dear Mr. Buck:

I have received a copy of your memo to Mr. Tom Eisen, Department of Land and Natural Resources, Land Division, regarding our application for a Conservation District Use Permit for the relocation of the Hanalei River streamgage. I understand from that memo that you have no objections to the issuance of the Conservation District Use Permit. Our Final Environmental Assessment will include a copy of your memo.

Thank you for your response to our Conservation District Use Permit application. If you have any questions, please feel free to call me at 522-8290.

Sincerely,

Barry Hill

Bon Will

Assistant District Chief

BENJAMIN J. CAYETANO



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

COMMISSION ON WATER RESOURCE MANAGEMENT
P. 0. 80X 621

HONOLULU, HAWAII 96809

July 14, 1998

MICHAEL D. WILSON CHAIRPERSON

ROBERT G. GIRALD DAVID A. NOBRIGA LAWRENCE H. MIIKE RICHARD H. COX HERBERT M. RICHAROS, JR.

TIMOTHY E. JOHNS DEPUTY DIRECTOR

TO:

Mr. Dean Y. Uchida, Administrator

Land Division

FROM:

Timothy E. Johns, Deputy Director Livery Commission on Water Resource Management

SUBJECT:

CDUA, Proposed Relocation of Hanalei River Streamgage

TMK: 4-4-02:16, 31; 5-3-01:3

Thank you for allowing us to comment on the subject CDUA.

The Commission is processing a stream channel alteration permit for the proposed gage.

We have no objections to the issuance of the Conservation District Use Permit subject to obtaining the stream channel alteration permit.

If you have any questions, please call David Higa at 587-0249.

DH:ss



United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

October 23, 1998

Mr. Timothy Johns
Deputy Director
State of Hawaii Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Johns:

I have received a copy of your memo to Mr. Dean Uchida, Department of Land and Natural Resources, Land Division, regarding our application for a Conservation District Use Permit for the relocation of the Hanalei River streamgage. I understand from that memo that you have no objections to the issuance of the Conservation District Use Permit as long as we obtain a Stream Channel Alteration Permit (SCAP) for the gage relocation. Our Final Environmental Assessment will note that the Commission on Water Resource Management is processing our SCAP application.

Thank you for your response to our Conservation District Use Permit application. If you have any questions, please feel free to call me at 522-8290.

Sincerely,

Barry Hill

Assistant District Chief

B-JUM

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES Division of Aquatic Resources

July 22, 1998

TO:

William S. Devick, Acting Administrator

Division of Aquatic Resources

THROUGH: Brian Kanenaka/Annette Tagawa, Aquatic Biologists

FROM:

DH (AT) Donald Heacock, Aquatic Biologist - Kauai

SUBJECT: CDUA Permit Request, File No. KA-2889, and Draft Environmental

Assessment for a USGS relocation of a stream gauge on the Hanalei

River.

I have reviewed the above referenced documents and offer the following comments regarding the relocation of the Hanalei River stream gauge:

- The applicant should work with the USDA's National Resource Conservation 1. Service in order to validate and implement the proposed Best Management Plan in order to minimize soil erosion and maximize the re-vegetation and bank stabilization at both old and new stream gauge sites.
- 2. A stream alteration permit may be required from the Commission on Water Resources Management since the proposed relocation will entail about 1 cubic yard of concrete added to the stream channel and another 6 cubic yards added to the floodplain.
- Cement, which is toxic to aquatic organisms, should not be allowed to flow, leach 3. or in any way be discharged into the Hanalei River.



United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

October 23, 1998

Mr. William Devick, Acting Administrator
State of Hawaii Department of Land and Natural Resources
Division of Aquatic Resources
1151 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Devick:

I have received a copy (enclosed) of a memo to you from Mr. Donald Heacock, Division of Aquatic Resources, regarding our application for a Conservation District Use Permit for the relocation of the Hanalei River streamgage. My responses to the concerns raised by Mr. Heacock follow:

- 1. I contacted Mr. Ron Peyton of the Natural Resources Conservation Service in Lihue and discussed our Best Management Practices (BMPs) with him. He indicated that our BMP plan should be adequate to minimize erosion and maximize bank stabilization, given the small area that will be disturbed.
- 2. We have submitted an application for a Stream Channel Alteration Permit to the Commission on Water Resource Management.
- 3. Our BMP plan is intended to prevent any cement from mixing with the water in the river.

Thank you for your response to our Conservation District Use Permit application. If you have any questions, please feel free to call me at 522-8290.

Sincerely,

B

W

Barry Hill

Assistant District Chief

Enclosure



STATE OF HAWAI'I OFFICE OF HAWAIIAN AFFAIRS 711 KAPI'OLANI BOULEVARD, SUITE 500 HONOLULU, HAWAI'I 96813

July 14, 1998

Mr. Dean Y. Uchida Land Division DLNR P.O. Box 621 Honolulu, HI 96809

Subject: Conservation District Use Permit Application for the Relocation of a Hanalei River Streamgage, Hanalei, Island of Kauai

Dear Mr. Uchida:

Thank you for the opportunity to review the Conservation District Use Permit Application for the Relocation of a Hanalei River Streamgage, Hanalei, Island of Kauai. The U.S. Geological Service (USGS) is planning to relocate an existing streamgage to a site approximately 3000 feet upstream of its present location. The relocation would allow the USGS to improve the accuracy of streamflow measurements.

The Office of Hawaiian Affairs (OHA) has reviewed the Conservation District Use Permit Application and has no concerns at this time. Please contact Colin Kippen (594-1938), LNR Officer, or Luis Manrique (594-1758), should you have any questions on this matter.

Sincerely yours

Randall Ogata Administrator Colin Kippen Officer,

Land and Natural Resources Division

Colu lanne

cc: Board of Trustees CAC, Island of Kauai



United States Department of the Interior

Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

October 23, 1998

Mr. Colin Kippen, Land and Natural Resources Officer State of Hawaii Office of Hawaiian Affairs 711 Kapiolani Boulevard, Suite 500 Honolulu, Hawaii 96813

Dear Mr. Kippen:

I have received a copy of your letter to Mr. Dean Uchida, Land Division Administrator, Department of Land and Natural Resources, concerning our application for a Conservation District Use Permit for relocation of our Hanalei River streamgage. I understand that at this time you have no concerns with this project. I appreciate your response to our application. Our Final Environmental Assessment will include a copy of your letter.

If you have any questions, you are welcome to call me at 522-8290.

Barry Hill

Assistant District Chief

BENJAMIN J. CAYETANO GOVERNOR OF HAWAII

LP



LAWRENCE MIKE

STATE OF HAWAII DEPARTMENT OF HEALTH P.O. BOX 3378

In reply, please refer to

HONOLULU, HAWAII 96801 July 16, 1998

98-001A/epo

TO:

The Honorable Michael Wilson, Chairperson Department of Land and Natural Resources

FROM:

Lawrence Milke Sund

Director of Health

SUBJECT:

CONSERVATION DISTRICT USE APPLICATION

Applicant:

U. S. Geological Survey

File No.:

KA-2897 (D)

Request:

Relocate Hanalei River Streamgage

Location:

TMK:

Hanalei, Kauai 5-4-02: 16 and 31

Thank you for allowing us to review and comment on the subject request. We have the following comments to offer:

Clean Water Branch

A Section 401 Water Quality Certification has been issued to the United States Geological Survey (USGS) for the proposed activity. Enclosed is a copy of the Section 401 Water Quality Certification dated July 7, 1998.

Should you have any questions regarding this matter, please contact Mr. Shane Sumida, Engineering Section of the Clean Water Branch, 586-4309.

Encl.

CWB c:



United States Department of the Interior

Water Resources Division 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

October 23, 1998

Dr. Lawrence Miike, Director State of Hawaii Department of Health P.O. Box 3378 Honolulu, Hawaii 96801

Dear Dr. Miike:

I have received a copy of your memo to Mr. Michael Wilson, Chairperson, Department of Land and Natural Resources, concerning our application for a Conservation District Use Permit for the relocation of our Hanalei River gage. I appreciate your response to our application. Our Final Environmental Assessment will include a copy of your memo.

If you have any questions, please feel free to call me at 522-8290.

Sincerely,

Barry Hill

Assistant District Chief

B- HM

CONSERVATION DISTRICT USE APPLICATION

FOR DLNR USE ONLY STATE OF HAWAII Reviewed by DEPARTMENT OF LAND AND NATURAL RESOURCES Date P. O. BOX 621 Accepted by HONOLULU, HAWAII 96809 Date Docket/Fine No. CONSERVATION DISTRICT USE APPLICATION FORM 180-Day Exp. EIS Required PH Required Board Approved Disapproved (Print or Type) SUMMARY PAGE I. LANDOWNER II. APPLICANT (If State land, to be filled by State of Hawaii or Name U.S. Geological Survey government entity with Address 677 Ala Moana Blvd., #415 management control over parcel.) Honolulu, Hawaii 96813 Name Address Telephone No. (808) 522-8290 Interest in Property Federal/State Basic Data Collection (Indicate interest in property: Telephone No. submit written evidence of this SIGNATURE . interest.) *SIGNATURE B_____R_W DATE Date 2/5/98_____ NOTE: Signature of an authorized representative of DLNR under this section **If for a Corporation, Partnership, is not to be construed as Agency or Organization, must be an approval or as an signed by an authorized officer. application which shall be submitted separately with AGENT the appropriate fee. Also, for private lands with multiple Name ----owners, the application shall be signed by landowners whose Address property interests constitute or exceed 85% of the fee Telephone No. ownership of the parcel(s).

Dec. 1994

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

III.	TYPE OF PERMIT IV.		LAND PARCEL LOCATION	
	<pre>(1) Departmental permit (see section 13-5-33);</pre>		Island	Kauai
	(2) Board permit (see section 13-5-34)	County	Kauai
	(3) Emergency permit (see section 13-(4) Temporary variance (see section 13-5-36)	5~35)	District	<u>Hanalei</u>
	(5) Nonconforming uses (see section 13-5-37)		Tax Nap Key(s)	5-4-02-16131,5-3-01-
	(6) Site plan approval (see section 13-5-38); or		Area of Parcel	1.0 acre (Indicate in acres
	(7) Management plan (see section 13-5-39)		Term (if lease	or sq. ft.) N/A

V. SUMMARY OF PROPOSED IDENTIFIED LAND USE: (Cite applicable section of Title 13-5, HAR. Attach additional sheet(s) as needed.)

Basic data collection involving a land use with incidental ground disturbance.

VI. ENVIRONMENTAL REQUIREMENTS

See attached draft EA.

Pursuant to Chapter 343, Hawaii Revised Statutes, and in accordance with Title 11; Chapter 200, Environmental Impact Statement Rules for applicant actions, a Draft Environmental Assessment of the proposed use must be attached. The Draft Environmental Assessment shall include, but not be limited to the following:

- Identification of applicant or proposing agency;
- (2) Identification of approving agency, if applicable;
- (3) Identification of agencies consulted in making assessment;
- (4) General description of the action's technical, economic, social, and environmental characteristics;
- (5) Summary description of the affected environment, including suitable and adequate location and site maps;
- (6) Identification and summary of major impacts and alternatives considered, if any;
- (7) Proposed mitigation measures, if any;
- (8) Determination;
- (9) Findings and reasons supporting determination; and
- (10) Agencies to be consulted in the preparation of the EIS, if applicable.

Following the end of a 30-day review period for the Draft Environmental Assessment, any comments received along with their responses must be incorporated into the Final Environmental Assessment. If appropriate, the text, figures, tables, maps, and other ancillary parts of the Environmental Assessment should be revised.

VII. DESCRIPTION OF PARCEL See attached sheets.

- Existing structures/use. (Attach description or map and one set of Α. original photographs. Also, if applicable, include any previously obtained Federal, State and/or County permit approvals.)
- Existing utilities. (If available, indicate size and location on map. в. Include electricity, water, telephone, drainage, and sewerage.)
- Existing access. (Provide map showing roadways, trails, if any. Give C. street name. Indicate width, type of paving and ownership.)
- Flora and Fauna. (Describe and provide map showing location and types D. of flora and fauna. Indicate if rare or endangered native plants and/or animals are present.)
- Topography; if ocean area, give depths. (Submit contour maps for ocean E. areas and areas where slopes are 40% or more. Contour maps will also be required for uses involving tall structures, gravity flow and other special cases.)
- If shoreline area, describe shoreline. (Indicate if shoreline is sandy, F. muddy, rocky, etc. Indicate cliffs, reefs, or other features such as access to shoreline.)
- Existing covenants, easements, restrictions. (If State lands, indicate G. present encumbrances.)

	H. Historic sites affected. (If applicable, attach map and descriptions.)
VIII.	COMMENCEMENT DATE: 6/1/98
	COMPLETION DATE: 6/30/98 for construction, gage to be operated for 10 years
ıx.	CITE AND DESCRIBE IN DETAIL THE PROPOSED IDENTIFIED LAND USE: (Refer to Title 13-5, HAR. Attach additional sheets as needed.) See attached sheet.
x.	AREA OF PROPOSED USE: 0.5 acres (Indicate in acres or sq. ft.)
XI.	NAME AND DISTANCE OF NEAREST TOWN OR LANDMARK:
	Hanalei, 2.6 miles northwest
XII.	LAND USE COMMISSION BOUNDARY INTERPRETATION: If the area is within fifty feet of the boundary of the Conservation District, include a map showing the

interpretation of the boundary by the State Land Use Commission.

- XIII. SUBZONE BOUNDARY DETERMINATION: Prior to the department receiving for processing any application for a permit, if the applicant's proposed land use lies within fifty feet of a subzone boundary, the applicant shall first notify the department of the intended use and seek a determination of the precise boundary of the subzone with respect to the parcel in question. (Refer to Section 13-5-17, HAR.) N/A
- XIV. FEES. Each application shall be accompanied by such filing fees as specified in Chapter 13-5, HAR. All fees shall be in the form of cash, certified or cashier's check, and payable to the State of Hawaii. Attached.
- XV. <u>PIANS</u>. All applications shall contain associated plans such as a location map, site plan, floor plan, elevations and landscaping plans drawn to scale. Additionally, all plans should include a north arrow and graphic scale.
 - A. Area Plan. Area plan should include but not be limited to relationship of proposed uses to existing and future uses in abutting parcels; identification of major existing facilities; names and addresses of adjacent property owners. See attached tax map (Figure 4).
 - B. Site Plan: Site plan (maps) should include, but not be limited to, dimensions and shape of lot; metes and bounds, including easements and their use; existing features, including vegetation, water area, roads, and utilities. (For Site Plan Approvals, see Section 13-5-38, HAR.) See attached topographic map (Figure 1).
 - Construction Plan: Construction plans should include, but not be limited to, existing and proposed changes in contours; all buildings and structures with indicated use and critical dimensions (including floor plans); open space and recreation areas; landscaping, including buffers; roadways, including widths; offstreet parking area; existing and proposed drainage; proposed utilities and other improvements; revegetation plans; drainage plans including erosion sedimentation controls; and grading, trenching, filling, dredging or soil disposal. (See attached schematic drawings (Figures 2 and 3).
 - D. Maintenance Plans: For all uses involving power transmission, fuel lines, drainage systems, unmanned communication facilities and roadways not maintained by a public agency, plans for maintenance shall be included. N/A
 - E. Management Plans: If required, refer to Section 13-5-39, HAR, and Exhibit 3, entitled "Management Plan Requirements, dated September 6, 1994. N/A
 - F. Historic or Archaeological Site Plan. Where there exists historic or archaeological sites on the State or Federal Register, a plan must be submitted including a survey of the site(s); significant features; protection, salvage, or restoration plans. N/A

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

XVI. DEMONSTRATE THAT THE PROPOSED USE IS CONSISTENT WITH THE FOLLOWING CRITERIA:

- The proposed land use is consistent with the purpose of the Conservation District;
- 2. The proposed land use is consistent with the objectives of the subzone of the land on which the use will occur;
- 3. The proposed land use complies with provisions and guidelines contained in Chapter 205A, Hawaii Revised Statutes (HRS), entitled "Coastal Zone Management," where applicable;
- 4. The proposed land use will not cause substantial adverse impact to existing natural resources within the surrounding area, community or region;
- 5. The proposed land use, including buildings, structures and facilities, shall be compatible with the locality and surrounding areas, appropriate to the physical conditions and capabilities of the specific parcel or parcels;
- 6. The existing physical and environmental aspects of the land, such as natural beauty and open space characteristics, will be preserved or improved upon, whichever is applicable;
- Subdivision of land will not be utilized to increase the intensity of land uses in the Conservation District; and
- The proposed land use will not be materially detrimental to the public health, safety and welfare.

See attached sheet.

CONSERVATION DISTRICT USE PERMIT APPLICATION HANALEI RIVER STREAMGAGE RELOCATION U.S. GEOLOGICAL SURVEY

SUPPLEMENTAL INFORMATION

VII. DESCRIPTION OF PARCEL

A. Existing structures/use

The existing gage (Figure 1) includes a 8' x 8' x 8' wooden shelter on the right bank of the river, a metal conduit and plastic gas (nitrogen) line running from the shelter to the stream, a concrete orifice anchor, and a cableway spanning the river that is attached to two mango trees.

No structures are presently at the proposed gage location (Figure 1).

B. Existing utilities

None.

C. Existing access

See Figure 1. At present, neither the existing gage nor the proposed gage site are accessible by trail, however, a trail maintained by the State Division of Forestry and Wildlife passes within 300 feet of the proposed gage site. The existing gage is reached on foot from the Hanalei Valley road by crossing the new bypass channel and crossing an overgrown pasture.

D. Flora and fauna

Vegetation is primarily hau and Java plum on the stream banks. One large mango tree grows on the right bank. No threatened or endangered species were noted during an inspection by a USGS biologist.

E. Topography

See Figure 1.

F. N/A (not a shoreline area)

G. Both existing and proposed gage sites are on State land. The proposed gage site is within a parcel designated as homestead land.

H. Historic sites affected

None.

OEOC BULLETIN PUBLICATION FORM

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LEASE CHECK THE	FOLLOWING CATEGORIE	s:	A-1		· <u> </u>	
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ONDIT	HONS WHEN TRIGGERED THE ES LAW, MEASE	CHICK ALL	THAT AMY TO THE PROPOSED ACTION
х	Use of State or County lands or funds HRS 343-51a1111		Use of lands in the Weitzu Special District HRS 343-5[e][5]
<u>x</u>	Use of Conservation District Lands HRS 343-51=1121		Amendment to a County General Flan HRS 343-5[a][6]
	Use of Shorefine Selbeck Area HRS 343-5[e][3]		Reclessification of Conservation Lands HRS 343-5[al[7]
	Use of Historic Site or District HRS 343-5[e][4]		Construction or modification of helicopter facilities HRS 343-5[a][8]
THER	CONDITIONS:	•	
	Use of Special Management Area (City & County of Others	Honoluluj	: •
X the	project does not bigger HRS 343, please explain why	document Ls	being submitted to OEQC
uolicati	RY of the proposed action or project to be published yn. The description should be brief (300 words or les d action.	in the OEOC	Bulletin. Hease submit it as a summary ready for sufficient detail to convey the full impact of the

NOTE: Since the deadline for EI3 submittal is so close to the publication date for the OEOC Bulletin, please assist us by bringing the Document for Publication Form and a computer disk with the project description (size 3 1/2" or 5 1/4" disk are acceptable; preferably WordPedect 5.1 or ASCII test formed to the Office of Environmental Quality Control as early as possible. Thank you.

gee attached.

SUMMARY FOR OEQC BULLETIN AND CDUA PERMIT

The U.S. Geological Survey (USGS) has operated a streamgage on the Hanalei River continuously since 1962. During a flood in November, 1995, the river bypassed the streamgage and cut a new channel. Presently, about one-third of the river's flow is diverted into this new bypass channel. The existing gage is therefore of limited use in determining the total flow of the river. The USGS proposes to relocate the streamgage to a site approximately 3,000 feet upstream of the present location so that the entire flow of the river can be measured.

The proposed gage would be similar to the existing gage, which uses a gas-feed pressure transducer sensing system. Structures would include a fiberglass or aluminum gage house on the left bank of the river, a metal conduit for the gas (nitrogen) line leading from the gage house to the river, a concrete anchor for the gas orifice and outside staff plate at the streambank, a crest-stage gage consisting of a 2-inch metal pipe installed vertically along the streambank and set into concrete, and a cableway for high-flow measurements anchored on the right bank to a large mango tree and anchored on the left bank to an A-frame truss with a backstay set in concrete. A trail about 300 feet in length would be needed to connect the streamgage to the existing trail used by hikers and hunters.

Most of the work would be done by hand. Chain saws, gas generators, and power saws and drills would be needed for short periods during construction. Helicopter sling loads would be necessary to deliver concrete. Excavation within the channel would total approximately one cubic yard to allow pouring of concrete anchors for the gas orifice and crest-stage gage.

Construction would require roughly one month. The streamgage is intended to be operated for at least 10 years. The streamgage would be visited bimonthly for streamflow measurements and maintenance.

RELATED PERMITS

Department of the Army permit, NWP authorization 33 CFR Part 325, Appendix A, Paragraph B.5, Scientific Measuring Devices--application submitted to Corps of Engineers on February 6, 1998, approved July 7, 1998.

Section 401 Water Quality Certification-application submitted to Department of Health on February 6, 1998, approved July 7, 1998.

Stream Channel Alteration Permit--application submitted to Commission on Water Resource Managment on February 6, 1998.

County of Kauai Special Management Area Permit--not applicable.

Coastal Zone Management Permit--not applicable.