



State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR PERMIT

- Stream Channel Alteration Stream Diversion Works Abandonment
 Stream Diversion Works Construction Stream Diversion Works Alteration

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of \$25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)

(a) DIVERSION WORK OWNER (b) LANDOWNER

Firm/Name _____ Firm/Name _____
Contact Person _____ Ph: - _____ Contact Person _____ Ph: - _____
Address _____ Address _____

(c) CONTRACTOR

Firm/Name _____ Ph: - _____ Contractor's License No. _____
Address: _____

2. STREAM LOCATION: Island _____ Tax Map Key _____
(Attach a USGS map, scale 1" = 2000', and a property tax map showing diversion location referenced to established property boundaries.)

3. STREAM DATA: Stream Name _____

Streamflow: Perennial Intermittent Ave Annual Flow _____ cfs
Instream Flow Std: Interim Permanent Ave Annual Flow _____ cfs
(Applicant must submit petition to amend interim instream flow standard should there be diverted water)

4. MAINTENANCE/DIVERSION WORK DATA:

Is maintenance/diversion work a part of a battery of diversions? Yes No
If yes, briefly describe diversion system
(Attach a sketch or continue under description under remarks, explanations if more space is needed)

Diversion Structure: Concrete Wood Pipe Other (explain)
Proposed Structure Elevation (msl) _____ ft.
Designer Firm/Name _____ Ph: - _____
Address _____

(Attach an engineering drawing & detailed specifications of proposed maintenance/diversion work)

5. PROPOSED USE:

Municipal (including hotels, stores, etc.) Military
 Domestic (Individual, noncommercial water sys.) Industrial
 Irrigation (crop) _____ Other (explain)
State Land Use District: Urban Agriculture Rural Conservation
County Zoning (describe) _____

6. (a) PROPOSED DIVERTED AMOUNT: mgd gpm cfs
(b) METHOD OF FLOW MEASUREMENT: Flow -meter Open-pipe Orifice Plate Weir
(c) AMOUNT TO BE RETURNED TO STREAM: mgd gpm cfs
(d) METHOD OF FLOW MEASUREMENT: Flow -meter Open-pipe Orifice Plate Weir

7. PENDING ACTIONS: CDUA SMA EIS EA NONE Other (explain)

8. REMARKS, EXPLANATIONS: _____

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a diversion work completion report within 30 days of the completion date of the permit work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant also understands that approval of the proposed permit shall not constitute a determination of riparian water rights and shall not guarantee the maximum capacity or future use up to the permitted diversion work capacity.

Diversion Work Owner _____ Landowner _____ Contractor _____
Signature _____ Signature _____ Signature _____
Date _____ Date _____ Date _____

For Official Use Only:

Date Received _____
Date Accepted _____
Field Checked By _____ Longitude _____ Aquifer System name _____
Date _____ Latitude _____ State Diversion Work No. _____

- NOTE -

Information requested on this checklist must be provided through attachments or exhibits submitted with the permit application form.

CHECKLIST FOR THE PREPARATION OF STREAM RELATED APPROVALS

DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

PART A - GENERAL INFORMATION
[Required for all applications]

A-1 Applicant
Name _____
Organization _____
Address _____
City _____ State _____ Zip _____
Phone _____ Fax _____

A-2 Contact Person/Agent
Name _____
Organization _____
Address _____
City _____ State _____ Zip _____
Phone _____ Fax _____

A-3 RELATED PERMITS

If your proposed project is subject to the following permits/approvals submit either the approval letter of the appropriate agency or attach a copy of application form. If the project is not subject to the following permits/approvals indicate "N/A".

- a. Corps of Engineers (Harbors and Rivers Act, Section 404, Clean Water Act)..... N/A
- b. Department of Health (Best Management Practice Plan)..... N/A
- c. Right of Entry Permit if the project includes State lands (Chapter 171, HRS)..... N/A
- d. Conservation District Use (Title 13, Chapter 2, HAR)..... N/A
- e. Hawaii Environmental Policy Act (Chapter 343, HRS; Title 11, Chapter 200, HAR)..... N/A
- f. County grading permit N/A
- g. Soil and Water Conservation District..... N/A
- h. County flood ordinance(s)..... N/A
- i. County CZM Special Management Area..... N/A
- j. County discretionary permit(s) N/A

A-4 Landowner's Signature

Please secure the appropriate landowner's signature. If the land is owned by a government agency please secure the appropriate agency's signature.

Tax Map Key(s):

Landowner's Signature

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

A-5 Island _____

A-15 District _____

A-6 Stream Name(s)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

A-7 State Land Use Classification

_____ Agriculture _____ Conservation
 _____ Urban _____ Rural

If the proposed project involves more than one land use classification attach map showing alteration on each land use district.

A-8 Please describe this project's consistency with county zoning and development plans.

PART B - APPLICATION FOR STREAM CHANNEL ALTERATION PERMIT
[Required For Stream Channel Alterations and Construction of
Diversion Works Structures in Stream Channels (Section 13-169-50)]

B-1 Project Objectives (Describe the purpose of the project):

B-2 Project Description (Describe the proposed alteration within the stream channel):

- a. Materials
- b. Quantities
- c. Excavation
- d. Fill
- e. Disposal
- f. Construction methods
- g. Temporary facilities
- h. Expected period of time required for construction within stream channel)
- i. Liability during construction

B-3 Please submit the following (Each plan or map must be legible at 8.5" x 14" sheet):

- a. Location Map (Show location of proposed project relative to major roadways):
- b. Topographic Site Plan (Show contours of the site. Show existing conditions and proposed alterations with respect to property boundaries):
- c. Plans (Show proposed alterations with respect to property boundaries. Show, sizes, materials, quantities, contours, existing and proposed construction on scaled drawings).
- d. Elevation/Section (Show proposed alterations with respect to property boundaries; show detailed contours, drawings should be to scale):

B-4 Alternatives to the Proposed Project:

Please identify alternatives to the project, and describe the relative costs and benefits to each alternative.

PART C APPLICATION FOR STREAM DIVERSION WORKS PERMIT
(Required for stream diversions only)

C-1 Check Appropriate Type of Permit Application

___ Diversion Works Construction/Alteration (Section 13-168-32)

___ Diversion Works Abandonment (Section 13-168-35)

PROPOSED DIVERSION WORKS STRUCTURE:

C-2 Submit plans including plan, elevations, profiles, sections, location of intake and discharges. (See item B-2)

C-3 Submit flow diagram including sizes, materials pipes and fixtures (valves, backflow control devices, meters, filters). Include pump capacity, and water storage facilities. Clearly indicate all existing conditions and proposed alteration.

C-4 Submit scaled drawings showing configuration of the intake structure, indicating the stream level at different seasonal flows. Show flow direction, velocities, invert elevations, detailed sizes and configuration of diversion structures.

C-5 Attach photographs of the location of the proposed diversion structure.

C-6 Location point(s) of diversion.

| Intake | Flow | Latitude | Longitude | Elevation |
|--------|-----------|----------|-----------|-----------|
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |

C-8 Location points of discharge.

| Discharge | Flow | Latitude | Longitude | Elevation |
|-----------|-----------|----------|-----------|-----------|
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |
| _____ | _____ GPM | ___ ___ | ___ ___ | _____ FT |

STREAM FLOW CHARACTERISTICS

C-9 Does this stream become seasonally dry at the point of diversion? Yes ___ No ___

C-10 Is there gauging data for this stream? Yes ___ No ___
If yes, please submit data, indicate location of gauge on stream map. Submit flow frequency table if available.

C-11 Submit field measurements of monthly streamflow data as part of this application, please describe method, frequency of readings, data sheets, and name of persons or organization taking readings. Flow units should be in cubic feet per second or gallons per hour.

WATER USE AND DEMAND

C-12 Domestic:

- a. How many dwellings? _____
- b. How much water will be diverted? _____ Gallons/day.
- c. How much storage capacity? _____ Gallons.
- d. How long can this storage facility provide water without diversion from the stream? _____ hrs, days, months.

C-13 Irrigation: (Crops other than taro or aquaculture)

| a. | Crop | Acres | Irrigation Method (furrow, drip, overhead) | Water Demand gal/month (assuming no rainfall) |
|-------|-------|-------|---|--|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

- b. If water storage facilities are proposed (Reservoirs, tanks, etc.) how much storage capacity?

| Facility | Capacity |
|----------|----------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

- c. Assuming the water storage facilities are empty, how long will it take to fill the storage facility?
_____ min hrs days
- d. Using the above storage and water demand figures, what is the maximum amount of time that this irrigation system can provide water without diverting water from the stream. _____ days.
- e. Attach flow diagram of water diversion relative to fields to be irrigated.
- f. Describe the flow characteristics during seasonal low flow conditions. What percentage of the streamflow will be diverted for agricultural use.
- g. Please describe alternative sources of water and the relative benefits and costs.

C-14 Taro Culture/Aquaculture:

- a. Species _____
- b. How many total acres? _____
- c. Amount of water to be diverted _____ Cu Ft/Sec or GPM
- d. Acres of ponds of lo'i _____
- e. Amount of water returned _____ Cu Ft/Sec or GPM
Returned to _____ (Stream Name)
(See C-8)
- f. What is the estimated dry season losses due to evapotranspiration. _____ gallons/day. Show calculations.
- g. Attach site plan showing flow diagram of water system relative to lo'i/ ponds.
- h. Describe flow characteristics during seasonally low flow conditions. What percentage of the stream will be diverted from the stream.

C-15 Water Rights

- a. If appurtenant water rights are claimed please submit the Information for Water Claim Form.
- b. If the water rights have been sold or transferred, please submit supporting legal documentation.

PART D AMENDMENT TO INTERIM INSTREAM FLOW STANDARD
 [Required for all diversions]

D-1 PERIOD OF RECORD AVERAGE MONTHLY STREAMFLOW WITHIN THE
 AFFECTED STREAM REACH, IN CFS

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL

ANNUAL MEDIAN FLOW IN CFS _____

D-2 PROPOSED AVERAGE MONTHLY STREAMFLOW DIVERSION FROM AFFECTED
 STREAM REACH, IN CFS

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ANNUAL

ANNUAL MEDIAN DIVERTED FLOW IN CFS _____

D-3 List of all Noninstream Users this stream

| Owner | Location- Upstream/Downstream | Noninstream use |
|-------|----------------------------------|-----------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

PART E SIGNATURE AND CERTIFICATION
 [Required for all applications]

I hereby certify that the information herein is true and
 factual to the best of my knowledge.

 SIGNATURE OF APPLICANT

 DATE