

August 17, 2018

Mr. Jeff Pearson Deputy Director, Commission on Water Resource Management Hawaii Department of Land and Natural Resources P.O. Box 621 Honolulu, HI 96809

Subject: Stream Diversion Works Permit Applications ("Category 2" Diversions) East Maui Irrigation Company "Taro Stream" Diversion Abandonments

Dear Mr. Pearson:

East Maui Irrigation Company (EMI) has previously submitted to the Commission on Water Resource Management (CWRM) a Stream Diversion Works Permit Application (SDWPA) for the abandonment of seventy of its existing irrigation system stream diversions in furtherance of its commitment to make existing stream flow restorations in several East Maui "taro streams" complete and permanent. Concurrently, EMI has made submittals to other governmental agencies (specifically, the Office of Conservation and Coastal Lands (OCCL), the United States Army Corps of Engineers (USACE), and the County of Maui Department of Planning) to secure approvals for the work to proceed.

Pursuant to guidance provided by your office, EMI is amending its original SDWPA by splitting it into separate, smaller applications in order to facilitate review and approval of the proposed abandonment work. The first such application, covering abandonment of fifteen diversions, is enclosed, along with the required filing fee. Additional applications will be submitted as they are completed.

Thank you for your consideration of these applications, and please feel free to contact me at (808) 877-2959 with any questions.

Sincerely

Sean M. O'Keefe

Director, Environmental Affairs

Alexander & Baldwin, Inc.

**Enclosures** 

cc: M. Vaught, M. Ching, N. Chun, Y. Izu

SDWP. L FILE ID: DOC ID: 2065



### STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

### STREAM DIVERSION WORKS PERMIT APPLICATION

Instructions: Please print in ink or type and send one (1) completed hardcopy and one (1) digital copy of the application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Applications must be accompanied by a non-refundable filing fee of \$25.00 payable to the Department of Land and Natura | Resources. The Commission may not accept incomplete applications without the required signatures. For assistance, call the Stream Protection and Management Branch at 587-0234. For further information and updates to this application form, visit http://dlnr.hawaii.gov/cwrm.

Check here to allow Commission staff to communicate primarily via e-mail.

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nopou, Pi'ina'au, Palauhulu, Wailuanui	<b>3</b>				
OFFICIAL USE ONLY:	SWHUID:	STANS TO STANS			
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<u> </u>	GENERAL PROJECT INFORMATION	TO SECURE AND ADDRESS OF THE PARTY OF THE PARTY.	Harristan and American			
	10. Diversion No: (if already assigned) see attached	11. Divers	ion Name	see attached		and the special factors with the special of the special specia
	12. Project Site Location(s): Provide site coordinate	es of downstr	eam-most	point of project in dea	rees minutos os	annala (NIA DON)
	Latitude: see attachedo ' " Long	gitude: see	attachedo			
	13. Diversion Structure Type: (Check all that apply)		attached		Elevation: see a	attached ft. above mean sea leve
	☐ Unlined channel ☐ Hand-built rock	По-				
[	☐ Metal ☐ Plastic		ncrete mas			☐ Pipe
	☑ Other - Describe: multiple; see attached	☐ Wo	ood	☐ Pum	0	☐ Direct use
<b>1</b> 5	STREAM DIVERSION WORKS SPECIFIC	TIONO	-	-		
1	TREAM DIVERSION WORKS SPECIFICA  4. Structure Dimensions: (teet) Width:	A HUNS (F	or Abando	nments, skip to Leg	al Requirement	s section, Item #32.)
1 /	Provide generalized dimensions for the					
6	THUTE DIOLOCK / Structure area if the ""					
a	roject includes a pipe (e.g., culvert, Length: rain, etc.), provide the pipe diameter.				2	
	Diametel,				Train Bares Latter	
	5. Diversion Location:	(downstream vie	ew)			Partient on the Low
di	ovide the general location of the Right ban version intake structure in relation to	ik (downstream i	view)		N <sub>n0th</sub>	Direction
th	- due of the state of the	ntire stream o			Deight	Agent.
16	. Intake Dimensions: (feel) Width:					
	. Average diversion amount: (cubic feet per second)	Heig	nt:	Length:		Diameter:
18	. Diversion is part of a system of diversions:	☐ Yes				
19	Diverted flow can be controlled:	☐ Yes	☐ No			
	Control Dimensions: (feet) Width:	Heigi				
20.	Water will be pumped from the stream:	☐ Yes	□ No	Length:		Diameter:
<u> </u>	If yes, identify pump capacity: (gallons per minute)		☐ NO	D-U.		
21.	Water will be impounded in the stream channel:	☐ Yes	□ No	Dany average	ge pumping tim	e: (hours)
22.	Water diversion capacity will be measured daily:	☐ Yes	□ No			
23.	Water will be returned to the stream:					
#	to the oticality	LI Yes	l No			
<u></u>	If yes, average amount of return flow: (cubic feet per	Yes (second)	☐ No			
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	33. Special Management Area Permit (SMAP): To determine if an SMAP is necessary, contact your County Plan  Required. SMAP #:  Patr SMAP		
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	Not Required. Attach documentation from applicable County agency.		
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	34. State Historic Preservation Division (SHPD), Department of Land and Natural Preservation		
	34. State Historic Preservation Division (SHPD), Department of Land and Natural Resources: If the parcel(s) has been reviewed by the State Department of Land and Natural Resources Historic Preservation Division (SHPD of Environmental Review, Special Management Area Permit, etc.), check "yes" and attach any relevant documentation infrastructure for the alteration), and a short description of the prior use(s) of the land on which the alteration resides "Please note: You are strongly edicard."	from SHDP. If the the location, acc	ਪੁੱ ne affected ess road and
	*Please note: You are strongly advised to contact the SHPD to obtain a pre-review of your project. In the even may be held in abeyance or denied until issues with HP are resolved. To contact SHPD, please call (808) 692-	ent that you do no	
	documentation from the SHPD.	s. I have attache	applicable
<b>—</b>	23 Thave not consulted with the SHPD regarding potential impacts of streets at a second street at the second streets at the second street streets at the second street street streets at the second street street streets at the second street streets at the second street street streets at the second street streets at the second street street street street street street street street streets at the second street		
	otatules, nawall Environmental Policy Act.	oric sites.	
	☐ An Environmental Assessment was completed and		
	An Environmental Impact Statement was required and has been a ccepted (attach letter of acceptance).		
	and the minimum reliability of the minimum relia		
	A Finding of No Significant Impact has been determined (attach letter).		
	Publication date in The Environmental Notice:		
	This project proposes:		
	☐ Use of state or county lands, or use of state or county funds ☐ Use within a state conservation district ☐ Use within a shoreline setback area ☐ Waste-to-energy facility		
	Use within a national or Hawaii registered historic site Use within the Waikiki Special District The construction, expansion or modification of the construction of th		
C	☐ The construction, expansion or modification of helicopter facility  THER REGULATORY REQUIREMENTS  ☐ Power-generating facility ☐ None of the above 11 items		
l If	the proposed stream channel alteration		
	the proposed stream channel alteration is subject to the following permits or approvals, indicate by checking the app ther the appro val letter from the appropriate agenc y or attach a copy of the application form. If the proposed stream the following permits or approvals, indicate by checking the "N/A" (Not Applicable) field.	ropriate box belov channel alteration	v and submit is <u>not</u> subject
36	5. U.S. Army Corps of Engineers (Harbors and Rivers Act, Section 404, Clean Water Act)	<u>Attached</u>	<u>N/A</u>
	Best Management Practices Plan)  Best Management Practices Plan)		$\boxtimes$
38	Right-of-Entry or Right-of-Way Permit if the proposed stream channel alteration includes State lands.  (Chapter 171, Haw aii Revised Statutes)		
39	- Hawaii Environmental Policy Act (Chapter 343, Hawaii Revised Statutes; Title 11, Chapter 200, Hawaii Administrative Rules)	П	
40	Soil and Water Conservation District	<u>.</u>	
41	County Certification of "No-Rise"		$\boxtimes$
42.	County Grading Permit		$\boxtimes$
43.	County Discretionary Permit(s)		$\boxtimes$
	JLTURAL IMPACTS		$\boxtimes$
	icles IX and XII of the State Constitution, other state laws, and the courts of the State, require government agencies to the state, require government agencies to the state, require government agencies to the late of the state of the state of all information with this application as requested.	ilabie, piease mai	ce a note in
44.	Please provide the identity and scope of cultural, historical, and natural resources in which traditional and cert to the following:	customary nativ	Hawaiian
Cou	unty of Maui Planning Department, Kalo Kanu O Ka'aina: A Cultural Landscape Study of Ke'anae and ui, July 1995	1 337-11	
Ker	m, July 1995	i wanuanui, isi	and of
F	oa Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina 2001		
<b>-</b>	oa Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		
<b>F</b>	a Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		
P	a Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		
<b>F</b>	a Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		
<b>-</b>	a Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		
<b>.</b>	a Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		
<b>.</b>	a Maly and Onaona Maly, Wai O Ke Ola: He Wahi Mo'olelo No Maui Hikina, 2001		

45. Identify the e	extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired b I action.
The proposed acturn will have a	ction will have a positive impact on stream resources due to the total restoration of flows in affected streams. This positive effect on traditional and customary Native Hawaiian rights, including but not limited to kalo cultivation in m of the diversions.
AG What familie	
reasonably pro	action, if any, could be taken by the Commission on Water Resource Management in regards to your application to tection Native Hawaiian rights?
The Commission's	s expedited approval of this application will advance the project's work schedule.

Please complete the following sections by providing detailed information on the project components identified below. If there is not enough available, please make a note in the field (e.g., "See attached") and attach all information with this application as requested.  See attached.	
47. Describe the overall project scope and objectives. See attached.	
See attached.	h space
	<del></del>
Describe existing stream channel dimensions and median streamflow conditions at the site of the proposed stream diversion works are proposed.	-
applicable as no stream diversion works are proposed.	works.
·	

49. Identify and describe the project components outlined below
A. Materials Principally concrete/grout and stream rocks
1 J Control groun rocks
B. Quantities
To be determined based on work plans for each diversion. See attached.
C. Excavation
None anticipated.
D. Fill To be determined based on work plans for each diversion. See attached.
The same of the sa
E. Disposal
With the exception of stream rocks and boulders, materials removed from diversion structures will be transported off-site for proper disposal.
To Pro-
Work will be described.
Work will be done primarily by hand. Heavy equipment may be utilized only when absolutely necessary in the interests of safety and practicality. See attached.
G. Temporary facilities None anticipated except as necessary to divert stream flows around work areas (e.g., using sand bags, pipes).
sand bags, pipes).
H. Expected period of time required for construction
Estimated three to six months, dependent upon weather conditions.
I. Liability during construction
None anticipated.

50. Describe the project's consistency	with county zoning and development plans.	
Not applicable. No new uses are prop	posed.	
51. Identify notential alternatives (course		
Not applicable. Project is intended to r	es of water) to the project and describe the relati	ve costs and benefits of each alternative.
J	ostore stream now,	
SUBMITTALS		
Please submit the following plans, maps, or de	awings in legible form, preferably on 8.5" by 11" sh	
52. Location Map: Provide a location map of	f the proposed project relative to major roadways.	eets.
53. Plans / Flevations / Soutions - Day 1		
property boundaries. Elevation and section vie	a plan view of the proposed stream diversion works ews of the diversion structure in relation to the strea	structure in relation to the stream channel and
SIGNATURES		in original should also be provided if available.
Signing below indicates that the signatories un	derstand and swear that the information are idea.	
Further, the signatories understand that if the permit shall be subject to the following condition	derstand and swear that the information provided is permit requested is granted by the Commission on Nons:	s accurate and true to the best of their knowledge.
'/ '''' PIUDUSEU WORK IS TO BE COMPLETED !	arithin from (O)	
<ol> <li>The permittee shall notify the Commissi</li> <li>The permittee shall submit a set of as be</li> </ol>	on, by letter, of the actual dates of permit approva	l. and completion
The permittee shall submit a set of as-bi     The permit may be revoked if work is no	on, by letter, of the actual dates of project initiation uilt plans and photographs to the Commission upor of started within six (6) months after the date of the control of the date of the control of the date of the control of the	n completion of the project.
(6) months.	and the date of appl	OVALOF IT WORK IS SUSPENDED OF abandonod for all
action and an opportunity to be heard	e is not met, the Commission may revoke the permi	it after giving the permittee notice of the proposed
ST. AFFEICANI		FIFE
Print Name:	Signature:	Date:
Mark Vaught	Allan Ilandet	1/20/18
55. CONSULTANT	1 Junior Dungol	./20/00
Print Name:	Signature:	Date:
NA		
6. CONTRACTOR		
Print Name:	Signature:	Date:
NA.		
7. LANDOWNER (If multiple landowners, skip	Section 53, then complete and attach Form SCAF Signature:	
rint Name:	Signature:	P-LND with appropriate landowner signatures.)  Date:
		bate.
	i de la companya de	



### STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

## MULTIPLE LANDOWNERS/LOCATIONS FORM

For Official RECEIVED
COMMISSION ON WATER
RESOURCE MANAGEMENT

2010 DEC -5 AM 10: 04

Instructions: Please print in ink or type and send completed form attached to stream channel alteration or stream diversion works permit application to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete applications without the required landowner signatures. For assistance, contact the Stream Protection and Management Branch at 587-0234. For further information and updates to this application form, visit http://dlnr.hawaii.gov/cwrm.

A. LANDOWNER INFORMATION					
For proposed stream channel alterations ar landowner. Form LND-APP provides spac those, landowners affected by the proposed	nd stream diversion w	orks affecting multiple landowne ve (5) landowners. Complete as ation or stream diversion works.	rs, complet many form	e the sections below for each individual ns as necessary to identify all, and only	
1. LANDOWNER'S NAME/COMPANY					
East Maui Irrigation Company, LLC		Landowner's Contact Per-	son	Landowner's Phone	
Landowner's Mailing Address		Mark Vaught		(808) 579-9516	
PO Box 791628		Tax Map Key Parcel(s)		, , , , , , , , , , , , , , , , , , , ,	
Paia, Hawaii		(2) 2-8-008:007 Landowner's E-mail Address			
96779					
Print Name:	Signature:	mvaught@abhi.com			
Mark Vaught	Maju	(1) Varght	Date:	20/18	
2. LANDOWNER'S NAME/COMPANY			i s	<i>*</i>	
State of Hawaii		Landowner's Contact Pers	son	Landowner's Phone	
Landowner's Mailing Address		Suzahne Case, BLNR ( Tax Map Key Parcel(s)	Chair	(808) 587-0404	
State of Hawaii Department of Land an	d Natural Resource	(2) 1 1 002.002 (2) 2 (			
I realistational Dullating 1151 Punchhowl	Street	(2) 1-1-002:002, (2) 2-9 Landowner's E-mail Addres	<del>2-014:001</del>	<u>, (2) 2-9-014:017</u>	
L. FIODORIII. Hawan 96813		Landowner's E-mail Addre	SS		
Print Name:	Signature:	dlnr@hawaii.gov			
Suzanne Case	6,0		Date:	JUL 2 6 2018	
3. LANDOWNER'S NAME/COMPANY	1 gcev	7.00			
MINISTER OF THE PROPERTY OF TH		Landowner's Contact Perso	on	Landowner's Phone	
Landowner's Mailing Address				, mond	
<b>3</b> ************************************		Tax Map Key Parcel(s)		I	
		Landowner's E-mail Addres	ss		
Print Name:	Cinna d				
	Signature:		Date:		
4. LANDOWNER'S NAME/COMPANY					
4. ENINDOWNER'S NAME/COMPANY		Landowner's Contact Perso	n 1		
Landowner's Mailing Address		January Ciso	"	Landowner's Phone	
Earldowner's Mailing Address		Tax Map Key Parcel(s)			
		1 3133(3)			
		Landowner's E-mail Address			
Print Name:		- Mair Address	3	i	
rint radiie;	Signature:		Date:		
			Date,		
5. LANDOWNER'S NAME/COMPANY					
		Landowner's Contact Persor	1	Landowner's Phone	
Landowner's Mailing Address		Tay Man 16			
		Tax Map Key Parcel(s)			
		Lands Lands		<u>,                                      </u>	
		Landowner's E-mail Address			
Print Name:	Signature:	1 :			
	Jigilatule.		Date:		
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		The second secon			

### Attachment to Stream Diversion Works Permit Application East Maui Irrigation Company, LLC

Boxes 10 through 13:

This application is for abandonment of multiple (15) existing

diversions on multiple streams. See attached spreadsheet for details

relating to individual diversions.

Boxes 14 through 31:

Not applicable to abandonments.

Box 32:

One diversion covered by this application is located outside the Conservation District, while the remaining 14 are within the Conservation District. For those located within the Conservation District, no CDUP is required because the planned activities are either exempt from permitting or require only a Site Plan Approval. An application for a Site Plan Approval has been submitted to OCCL.

Box 33:

None of the diversions covered by this application is located within the

SMA, therefore no SMA Permit is required.

Box 34:

Some diversions covered by this application are considered historic structures because they are more than 50 years old, but none are listed on either the State or National Register of Historic Places. While no formal consultation with SHPD has been initiated for this project, consultation with SHPD has been completed for similar projects in the past. Relevant documentation is attached. Based on mitigation suggested for similar projects conducted previously, we anticipate SHPD recommendations for mitigation, if any, will be limited to scaled photographs of each diversion.

Boxes 35 and 39:

While portions of the proposed project will occur on state lands and/or within a state conservation district, the water diversions are existing uses and the proposed removal/abandonment of existing diversions is an exempt class of action under HAR Section 200-8(a)(8).

Box 36:

The proposed project is exempt from permitting under Section 404 of the Clean Water Act pursuant to Section 404(f)(1)(c) of the Act. For each project otherwise potentially subject to Section 404 permitting requirements, concurrence with this exemption has been obtained from the U.S. Army Corps of Engineers as is attached.

Box 37:

A Section 401 Water Quality Certification is not required for the proposed project because EMI is not an applicant for a federal license or permit to conduct these activities. Appropriate Best Management Practices will be implemented during the work.

# <u>Attachment to Stream Diversion Works Permit Application</u> <u>East Maui Irrigation Company, LLC</u>

Box 38:

No Right-of-Entry or Right-of-Way Permit is required for this project because all of the diversions on state land are existing diversions and EMI already has permission to access state land for the purpose of operating and maintaining these diversions.

Box 52:

Not applicable, as no new stream diversion works are proposed.

LINDA LINGLE GOVERNOR OF HAWAII





#### STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 601 KAMOKILA BOULEVARD, ROOM 555 KAPOLEI, HAWAII 96707

LAURA H. THIELEN CHARPESON BOARDOR I AND AND A THEAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

RUSSELL V. TSUJI

KEN C. KAWAHARA DEPUT DIRECTOR: WATER

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A MIDDLY WE SEA AND HE SERVE COMMISSION
LANDOUT WE SEA AND HE SERVE COMMISSION

L MO SLATE PARKS

December 15, 2008

Mr. Sean O'Keefe Director, Environmental Affairs Alexander and Baldwin, Inc. PO Box 266 Pu'unene, Hawai'i 96784

LOG NO: 2008,4842 DOC NO: 0812PC04 Archaeology

Dear Mr. O'Keefe:

SUBJECT:

Request for Information Regarding Mandatory Interim In-Stream Flow Standard

Modifications for Historic Era East Maui Irrigation Ditches --

Wailoa, Haiku and New Hamakua Ditches at Honopou and Hanehoi Streams; Lowrie Ditch at Hanapou, Hanchoi and Huelo (Puolua) Streams; and Hauolo

Tunnel at Lalahai, Lalapipi, Ka'auau and Hauoli Wahine Streams,

Makawao and Ko'olau Districts, Island of Maui

TMK: (2) 2-2-008:007; (2) 2-9-014:001; (2) 2-9-009:019; (2) 2-9-006:001

Thank you for the opportunity to comment on proposed interim in-stream flow standard (IIFS) modifications for the above historic period irrigation ditches. We understand that the modifications to specified portions of the ditches have been mandated by the State of Hawai'i Commission on Water Resource Management (CWRM). The purpose of the modifications is to ensure that certain minimum stream flows are maintained at all times at various points within the above named streams, as well as to consider the upstream migration of native aquatic species across the diversions. We further understand that because the proposed work is considered repair of existing infrastructure which will cost far below the replacement cost of the entire ditch system, a permit is not required and the Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Land (OCCL) has determined that it is exempt from environmental review under Hawai'i Administrative Rules §11-200-8(a) (1) due to negligible or no expansion or change in use beyond what the ditches are already used for and has authorized it, provided you consult with this office regarding the historic importance of the ditches themselves.

Proposed changes to the New Hamakua Ditch at Honopou Stream include sealing the inlet opening in an existing divider wall by bolting a steel plate over it. The height of the divider wall will be raised by 6" at its lowest point with a 1 to 2 foot wide notch cut into the dam and a steel control gate installed. All work will be done by hand during periods of low or no flow with no mechanized equipment used in the stream.

Proposed changes to the New Hamakua Ditch at Hanehoi Stream include cutting a 1 to 2 foot notch into the existing dam and installing a metal control gate. Work here will also include repairing an existing 6 foot berm adjacent to the intake gate by encasing a steel rail in concrete. All work will be done by hand during periods of low or no flow with non-mechanized equipment used in the stream.

Sean M. O'Keefe Page 2

Proposed changes to Wailoa Ditch at Honopou and Hanehoi Streams include the installation of prefabricated "low flow channels" which will be bolted into place on top of existing diversion gates. All work will be done by hand during periods of low or no flow with non-mechanized equipment used in the streams.

Proposed changes to the Hauolo Tunnel in four tributaries of the Palauhulu Stream (Lalahai, Lalapipi, Ka'auau and Hauoli Wahine Streams), all of which are located in the Conservation District, involves placing rocks into the open ditches which lead into the tunnel so that water flow will back up and overflow the existing diversions.

Although modification to the Lowrie and Haiku Ditches where they cross Honopou and Hanehoi Streams also appears necessary, there is no description of the proposed alterations at these locations included in your correspondence.

Several of the East Maui Irrigation ditches, such as the Lowrie Ditch (ca. 1900) are included on the State Inventory of Historic Places under Site Number #50-50-06-1508, with the New Hamakua Ditch (ca. 1904), Wailoa Ditch (ca. 1923) and Hauolo Tunnel old enough to also be included. Therefore, we believe that the best way to mitigate the structural changes necessary to meet the State Commission on Water Resource Management's (CWRM) Interim In-Stream Flow Standards (IIFS) mandate is to for your agency to take or arrange for the taking of scaled before and after photographs of the areas to be affected by the proposed modifications. The photographs may either be black and white prints or digital files on CD which are clearly labeled with the subject, date and cardinal direction of the image.

Please forward the photos to the attention of Dr. Astrid Liverman, SHPD Architecture Branch Chief at the above address.

Aloha,

Nancy McMahon, Deputy SHPO/State Archaeologist State Historic Preservation Division

Pancy a. M. Mahon

c: Jeff Hunt, Director, Dept. of Planning, 250 S. High Street, Wailuku, Hawai'i 96793 Maui CRC, Dept. of Planning, 250 S. High Street, Wailuku, Hawai'i 96793



#### DEPARTMENT OF THE ARMY HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS FORT SHAFTER, HAWAII 96858-5440

January 26, 2018

SUBJECT: Determination of No Permit Required, Abandonment of Water Diversions in Seven East Maui Streams, Island of Maui, Hawaii, Department of the Army File No. POH-2017-00230

Sean M. O'Keefe East Maui Irrigation Co., LLC PO Box 266 Puunene, HI 96784

Dear Mr. O'Keefe:

The Honolulu District, U.S. Army Corps of Engineers (Corps), Regulatory Branch has received your request for a determination whether a Department of the Army (DA) permit is required for the proposed Abandonment of Water Diversions in Seven East Maui Streams located on the Island of Maui, Hawaii. Your request has been assigned Department of the Army (DA) file number POH-2017-00230. Please reference this number in all future correspondence with our office relating to this action.

We have reviewed your submittal pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344; "Section 404") and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403; "Section 10"). Section 404 requires DA authorization for the discharge (placement) of dredged and/or fill material into waters of the U.S., including wetlands. Section 10 requires DA authorization for the placement of structures in, under or over navigable waters of the U.S. and/or other work affecting the course, location, condition or navigable capacity of such waters. To determine if a DA permit is required for a proposed action, the Corps must first determine whether the proposed project is located within the Corps' geographic jurisdiction (i.e., whether the activity is located within a water of the U.S.). If the activity is within a water of the U.S., the Corps must then determine whether the proposed activity is a regulated activity under Section 10 and/or Section 404, or if the activity is exempt under Section 404(f) and is not recaptured. The determination provided in this letter pertains only to whether your proposed project is an activity we regulate; it does not address geographic jurisdiction.

While we have not made a determination of the jurisdictional status of the aquatic resource(s) affected, based on the information you provided, we have determined that your proposed project is an activity that is exempted under Section 404(f) of the Clean Water Act and therefore, a DA permit is not required. This determination of no permit required addresses only the proposed work activities described in your submitted

documentation and does not convey our determination of the jurisdictional status of the East Maui streams. Should you require a geographic jurisdictional determination (JD) for this project, you must complete and return a JD Request Form, which can be requested from our office.

While a DA permit is not required for your proposed project, you are responsible for obtaining all other applicable Federal, state, or local authorizations required by law. Be advised, a DA permit may be required if you alter the method, scope, or location of your proposed work. You should contact our office if you are considering modifying your project.

Thank you for your cooperation with the Honolulu District Regulatory Program. Should you have any questions related to this determination, please contact me at 808-835-4307 or via e-mail at Rebecca.m.frager@usace.army.mil. You are encouraged to provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-based customer survey form at http://corpsmapu.usace.army.mil/cm\_apex/f?p=regulatory\_survey. For additional information about our Regulatory Program, please visit our web site at http://www.poh.usace.army.mil/Missions/Regulatory.aspx.

Sincerely.

FRAGER.REBECCA.M FRAGER.REBECCA.MABLE 1508149111 ABLE.1508149111

Digitally signed by DN: c=U5, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=FRAGER.REBECCA.MABLE.1508149111 Date: 2018.01.26 15:57:35 -10'00'

Becca Frager Regulatory Specialist



October 6, 2017

Ms. Shelly Lynch Chief, Regulatory Branch, CEPOH-EC-R Department of the Army U.S. Army Engineer District, Honolulu Building 230 Ft. Shafter, HI 96858-5440

Subject: Abandonment of Water Diversions in Seven East Maui Streams

Dear Ms. Lynch:

As has previously been discussed with Ms. Joy Animizu of your staff, East Maui Irrigation Company, LLC (EMI), a subsidiary of Alexander & Baldwin, LLC (A&B), has committed to permanently restoring flow in seven streams in East Maui that have historically been diverted for the irrigation of sugarcane (Honopou, Hanehoi/Puolua, Pi'ina'au, Palauhulu, Waiokamilo, and East and West Wailuanui Streams). A Stream Diversion Works Permit Application for abandonment of the diversions (copy attached) was submitted to the State of Hawaii Commission on Water Resource Management (CWRM) in 2016, and flow has been substantially restored in each of the streams primarily through operation of the diversions, while flow in Waiokamilo Stream was permanently restored in 2007. In order to make the flow restorations in the remaining streams permanent, EMI needs to make alterations to 41 diversions located in or near these six streams. Because the majority of the major diversion structures are integral to the associated irrigation ditches, and because these ditches will remain in operation for the foreseeable future transporting irrigation water from other East Maui streams, in most cases the diversions cannot be completely removed without compromising the integrity of the ditch.

A&B has preliminarily determined that the proposed work is exempt from the Section 404 permitting program under Clean Water Act Section 404(f)(1)(c), which provides that "the discharge of dredged or fill material for the purpose of construction or maintenance of farm or stock ponds or irrigation ditches, or the maintenance of drainage ditches...is not prohibited by or otherwise subject to regulation" under Section 404. Clarification is provided at 33 CFR Section 323.4(a)(3) that "discharges associated with siphons, sumps, pumps, headgates, wingwalls, weirs, diversion structures, and such other facilities as are appurtenant and functionally related to irrigation ditches are included in this exemption". Exceptions to this exemption relate only to the clischarge of toxic pollutants (not relevant to this project), and to activities whose purpose is to convert an area of waters of the United States to a use to which it was not previously subject. Pursuant to 33 CFR Section 320.1(a)(6), A&B requests your concurrence with our determination that a Clean Water Act Section 404 Permit is not required for the planned work described herein.

U.S. Army Engineer District, Honolulu Abandonment of Water Diversions in Seven Fast Maui Streams October 6, 2017; Page 2 of 2

Each of the subject diversion intakes is "appurtenant to and functionally related to" one of four existing irrigation ditches (i.e., the Koolau/Wailoa, New Hamakua, Lowrie, and Haiku Ditches) which historically provided water to the former Hawaiian Commercial and Sugar Company (HC&S) plantation and to other Maui farming operations. All of these ditches are intended to remain in operation to provide irrigation water for ongoing agricultural operations on the former HC&S lands and elsewhere. The proposed work is solely intended to allow these ditches to continue to transport water from other existing stream diversions in East Maui without diverting any water from the subject streams and their tributaries. The work will not result in the conversion of any area of waters of the United States to a use to which it was not previously subject, since its objective is to restore flow these streams.

HC&S has obtained several previous determinations from your office that similar projects involving alterations to irrigation diversions in both East Maui and West Maui Streams did not require permits from the Corps of Engineers in order to proceed. The most relevant of these, issued on March 27, 2009 (POH-2008-284), related to the alteration of seven diversion structures for the purpose of meeting Interim Instream Flow Standards established by CWRM; each of these seven structures is among those now proposed for further alteration.

Details of each of the planned diversion alterations are provided in the enclosed attachments. A&B requests that you kindly provide formal written concurrence with our determination for each of the 41 subject diversions so that we may proceed with these permanent flow restorations. We thank you for your assistance, and look forward to your response. Should you require any additional information regarding this matter, please feel free to contact me at (808) 877-2959.

Sincerely,

Sean M. O'Keeffe

Director, Environmental Affairs Alexander & Baldwin, LLC

**Enclosures** 

cc: Rick Volner, Jr., A&B Nelson Chun, A&B Meredith Ching, A&B M. Vaught, EMI

### <u>Additional Attachments – Description of Work</u>

# Stream Flow Restoration in Honopou Stream Summary of Relevant Information

1. Parties involved in the work:

Organization: East Maui Irrigation Company, LLC

Contact: Sean O'Keefe

Address: P.O. Box 266, Puunene, HI 96784

Telephone: (808) 877-2959

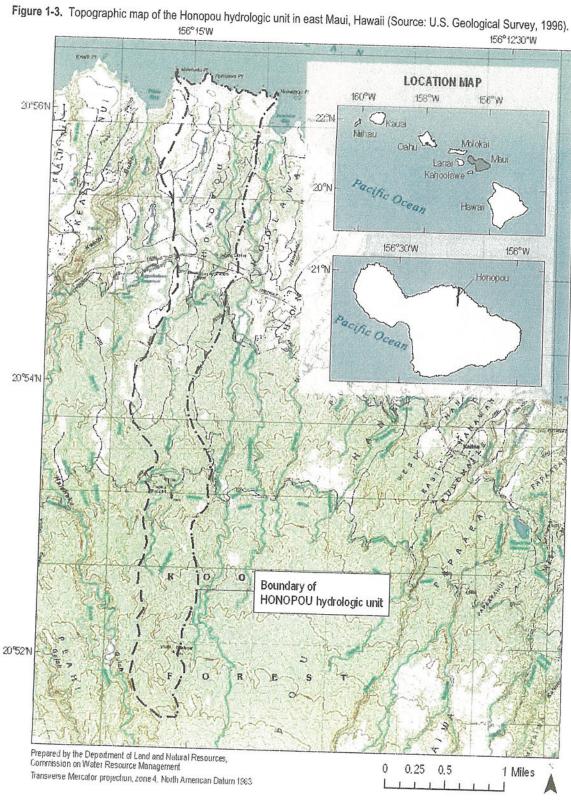
- 2. <u>Project name or title:</u> Stream Flow Restoration at Wailoa, New Hamakua, Lowrie, and Haiku Ditch Diversions on Honopou Stream
- 3. Name of water body: Honopou Stream
- 4. <u>Project street address:</u> Not applicable
- 5. Location of project: Haiku (Hamakualoa moku), Maui County, Hawaii
- 6. Other location descriptions: See attached Table of Honopou Stream Diversions for latitude and longitude, elevation, and Tax Map Key Number of each individual diversion.
- 7. <u>Directions to the site:</u> Please contact East Maui Irrigation Company for directions.
- 8. Nature of activity: See Description of Work on attached Table of Honopou Stream Diversions. Except as otherwise noted, all work will be done by hand and no mechanized equipment will be used in the stream. Work will be conducted during low stream flows in order to minimize the potential for any short-term water quality impacts.
- 9. <u>Project purpose:</u> The purpose of the project is to permanently restore flow in Honopou Stream.
- 10. Reason for discharge of dredged and/or fill material: Seal openings in existing diversion structures and/or allow stream to pass over irrigation ditch; see attached Table of Honopou Stream Diversions.
- 11. Types of material being discharged and the amount in cubic yards: See attached Table of Honopou Stream Diversions. In addition to any materials used to permanently alter the configuration of the diversions, sandbags and/or pipes may be temporarily placed in the stream as necessary to divert stream flow around work areas; any such materials will be removed from the stream upon completion of the work. Alternatively, where feasible, stream rocks may be re-positioned in the stream for this purpose.

# Stream Flow Restoration in Honopou Stream Summary of Relevant Information (continued)

12. <u>Surface areas of wetlands or other areas filled:</u> None – this work is intended to restore flow in the stream and will not result in filling of any wetlands

### 13. Attachments:

Honopou Hydrologic/Watershed Unit Maps
USGS Haiku Quadrangle Map, Site Locations – Honopou Stream Diversions
Table of Honopou Stream Diversions
Site Photographs, Honopou Stream Diversions
Conceptual Sketches, Honopou Stream Diversions



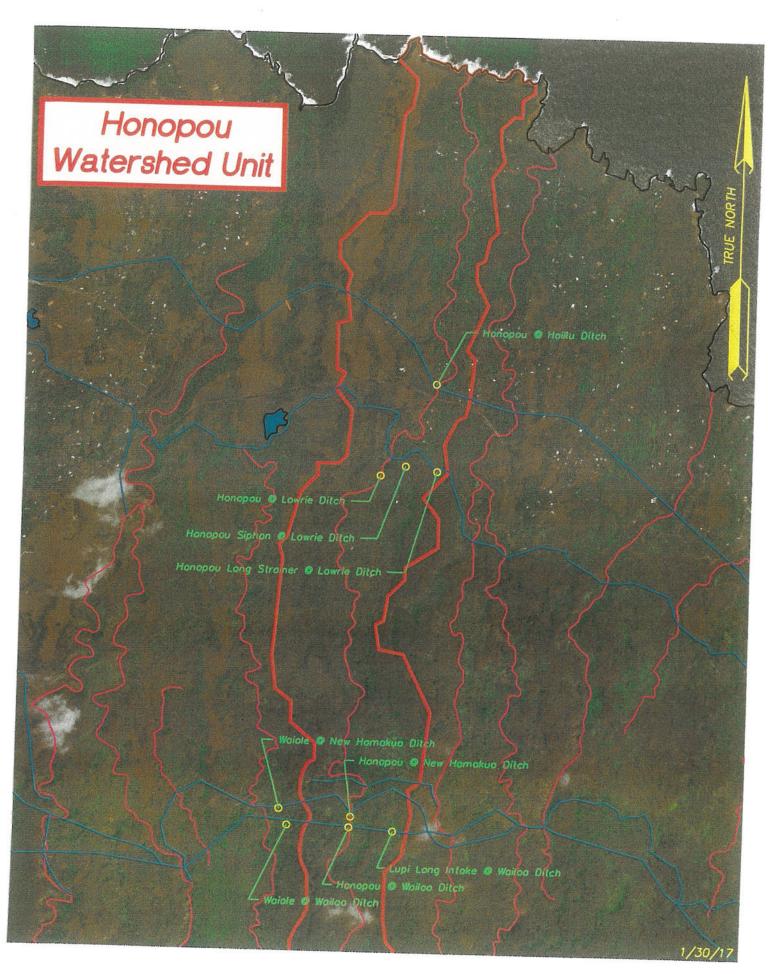


Table of Honopou Stream Diversions					
Diversion	EMI Map#	Latitude Longitude Elevation	TMK No. (owner)	Diversion Structure Type	Description of Work and Amount/Type of Fill Material
Honopou at Wailoa Ditch (Wailoa Ditch intake)	W-22	20° 53' 8.5" N 156° 15' 8.9" W 1,217 feet	2-8-8:007 (EMI) 2-9-14:001 (State of Hawaii)	Concrete masonry (with grate and sluice gate)	In order to prevent flow into the ditch via this diversion, the grate in the diversion must be sealed. This will be accomplished by filling the grate openings with concrete/grout. The amount of fill material (concrete/grout) is anticipated to be no more than about one to two cubic yards in volume and will be installed directly on the existing grate. Additionally, the existing sluice gate will be permanently removed. See Photo 1 and Figure 1, attached.
Wailole at Wailoa Ditch (Wailole intake at Wailoa Ditch)	W-22b	20° 53' 9.03" N 156° 15' 24.54" W 1,239 feet	2-8-8:007 (EMI)	Concrete masonry (with grate)	In order to prevent flow into the ditch via this diversion, the grate in the diversion must be sealed. This will be accomplished by filling the grate openings with concrete/grout. The amount of fill material (concrete/grout) is anticipated to be less than one cubic yard in volume and will be installed directly on the existing grate. See Photo 2 and Figure 2, attached.
Honopou at Lowrie Ditch (Honopou side ditch at Lowrie Ditch)	L-17	20° 54' 31.79" N 156° 15' 01.66" W 605 feet	2-9-14:017 (State of Hawaii)	Concrete masonry (with control gate and sluice gate)	Modifications to this diversion will not require the addition of any fill material and are therefore not subject to Section 404. Instead, an existing control gate that allows flow into the ditch will be permanently closed, and an existing sluice gate that allows flow to bypass the diversion will be permanently removed. See Photos 3 and 4 and Figures 3A and 3B, attached.

## <u>Photographs – Alterations to Honopou Stream Diversions</u>

(Photos 1 through 4)

### Site Photographs - Honopou Stream Diversions



Photo 1 (above): Honopou at Wailoa Ditch (W-22) Photo 2 (below): Wailole at Wailoa Ditch (W-22b)

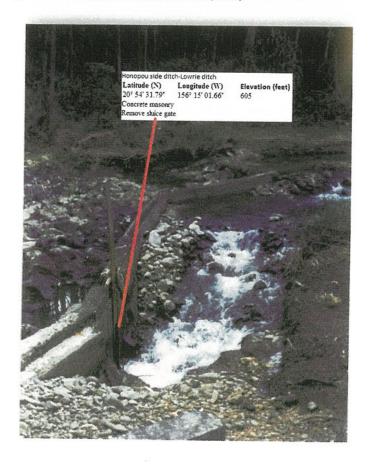
(Note: Disregard references to bolted steel plates. Intakes will be sealed with concrete/grout.)



### Site Photographs - Honopou Stream Diversions



Photo 3 (above): Control gate on Honopou at Lowrie Ditch (L-17) Photo 4 (below): Sluice gate on Honopou at Lowrie Ditch (L-17)



### <u>Conceptual Sketches – Alterations to Honopou Stream Diversions</u>

(Figures 1 through 3)

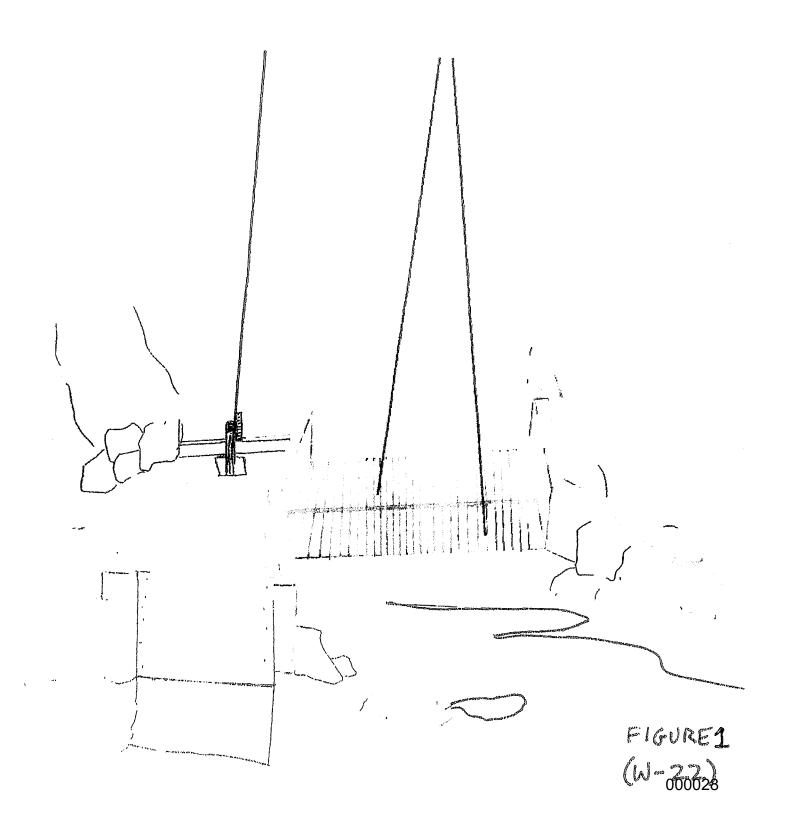
HONOPOU at WAILDA DITCH

Honopou-Walloa Ditch

	The second secon		
ı	Latitude (N)	Longitude (W)	Elevation (feet)
	20° 53' 08.50"	156° 15' 08.90"	1.217
	Diversion Comme		1321/

Diversion Structure Type - Concrete masonry

General Description of Work – Remove sluice gate and bolt steel plates or concrete over diversion intake grate.

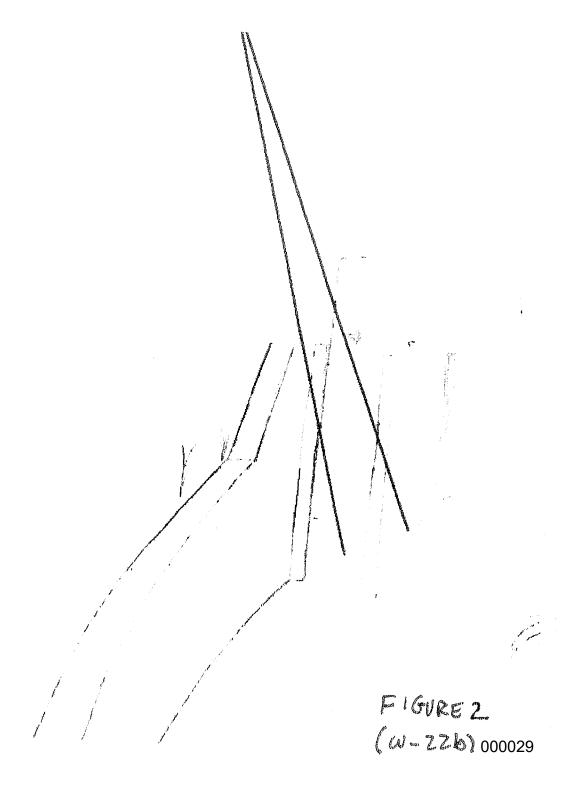


Wailole-Wailoa Ditch

Y -444 F CE		
Latitude (N)	Longitude (W)	Elmundless (F. al.
1 000	The state of the s	Elevation (feet)
20 33 09.03"	156° 15' 24.54"	1.239
Diversion Struct	no T	1,239

Diversion Structure Type - Concrete masonry

General Description of Work - Bolt steel plates or concrete over diversion intake grate.



Honopou side ditch- Lowrie Ditch

-	TO SACIE PREFAI	
Latitude (N)	Longitude (W)	Elevation (feet)
1 MAA	156° 15' 01.66"	( BEER)
Diversion Struct	70 70 70 70 70 70 70 70 70 70 70 70 70 7	605

Diversion Structure Type – Concrete masonry General Description of Work – Close existing control gate.

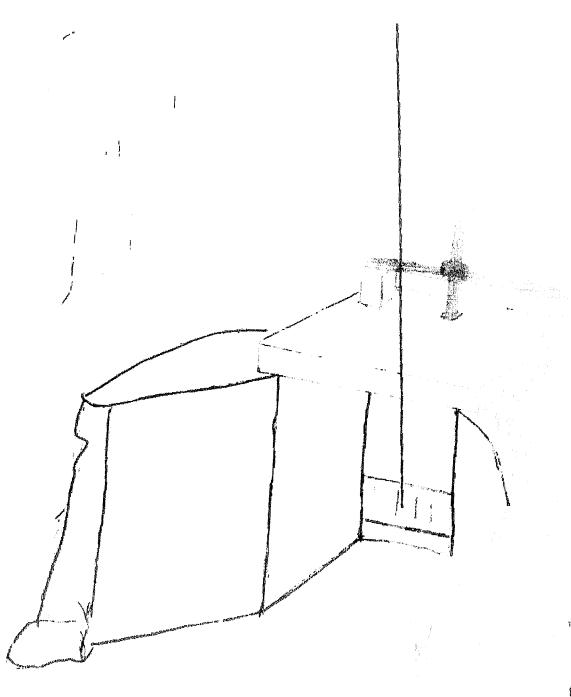


FIGURE 3A (L-17) 000030

HONOPOU at LOWRIE DITCH

Honopou side ditch-Lowrie Ditch

	TOU FORBIBE DIFCH	
Latitude (N)	Longitude (W)	Elevation (feet)
20° 54' 31.79"	156° 15' 01.66"	605

Diversion Structure Type – Concrete masonry General Description of Work – Remove sluice gate.

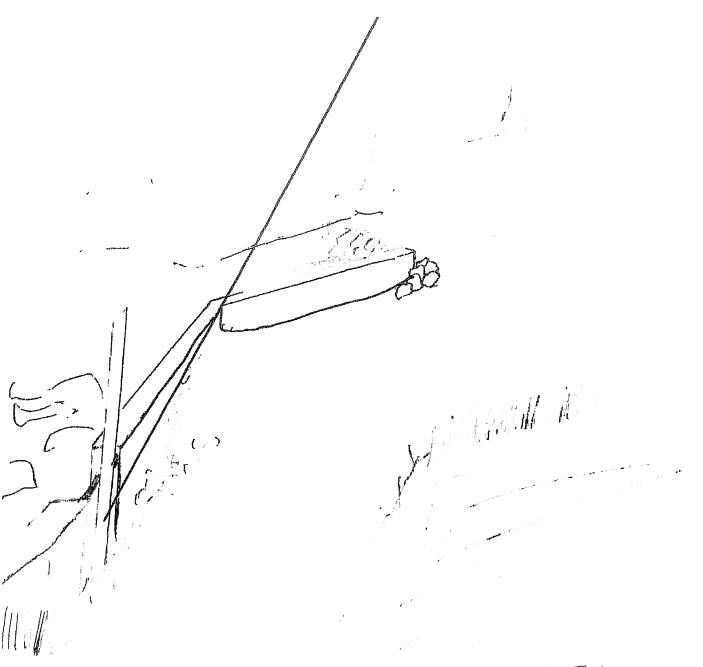


FIGURE 3'B (L-17) 000031

### <u>Stream Flow Restoration in Pi'ina'au (Palauhulu) Stream</u> <u>Summary of Relevant Information</u>

1. Parties involved in the work:

Organization: East Maui Irrigation Company, LLC

Contact: Sean O'Keefe

Address: P.O. Box 266, Puunene, HI 96784

Telephone: (808) 877-2959

2. <u>Project name or title:</u> Stream Flow Restoration at Koolau Ditch Diversions on Pi'ina'au (Palauhulu) Stream

- 3. Name of water body: Pi'ina'au Stream, Palauhulu Stream (and tributaries)
- 4. <u>Project street address:</u> Not applicable
- 5. Location of project: Keanae/Nahiku (Koolau moku), Maui County, Hawaii
- 6. Other location descriptions: See attached Table of Pi'ina'au (Palauhulu) Stream Diversions for latitude and longitude, elevation, and Tax Map Key Number of each individual diversion.
- 7. <u>Directions to the site:</u> Please contact East Maui Irrigation Company for directions.
- 8. Nature of activity: See Description of Work on attached Table of Pi'ina'au (Palauhulu) Stream Diversions. Except as otherwise noted in the table, all work will be done by hand and no mechanized equipment will be used in the stream. Work will be conducted during low stream flows in order to minimize the potential for any short-term water quality impacts.
- 9. <u>Project purpose:</u> The purpose of the project is to permanently restore flow in Pi'ina'au Stream, Palauhulu Stream (which joins with Pi'ina'au Stream just above Keanae), and their tributaries.
- 10. Reason for discharge of dredged and/or fill material: Seal openings in existing diversion structures and/or allow stream to pass over irrigation ditch; see attached Table of Pi'ina'au (Palauhulu) Stream Diversions. The majority of work proposed to be conducted on these diversions is not anticipated to result in a discharge of dredged and/or fill material.
- 11. Types of material being discharged and the amount in cubic yards: See attached Table of Pi'ina'au (Palauhulu) Stream Diversions. In addition to any materials used to permanently alter the configuration of the diversions, sandbags and/or pipes may be temporarily placed in the stream as necessary to divert stream flow around work

# Stream Flow Restoration in Pi'ina'au (Palauhulu) Stream Summary of Relevant Information (continued)

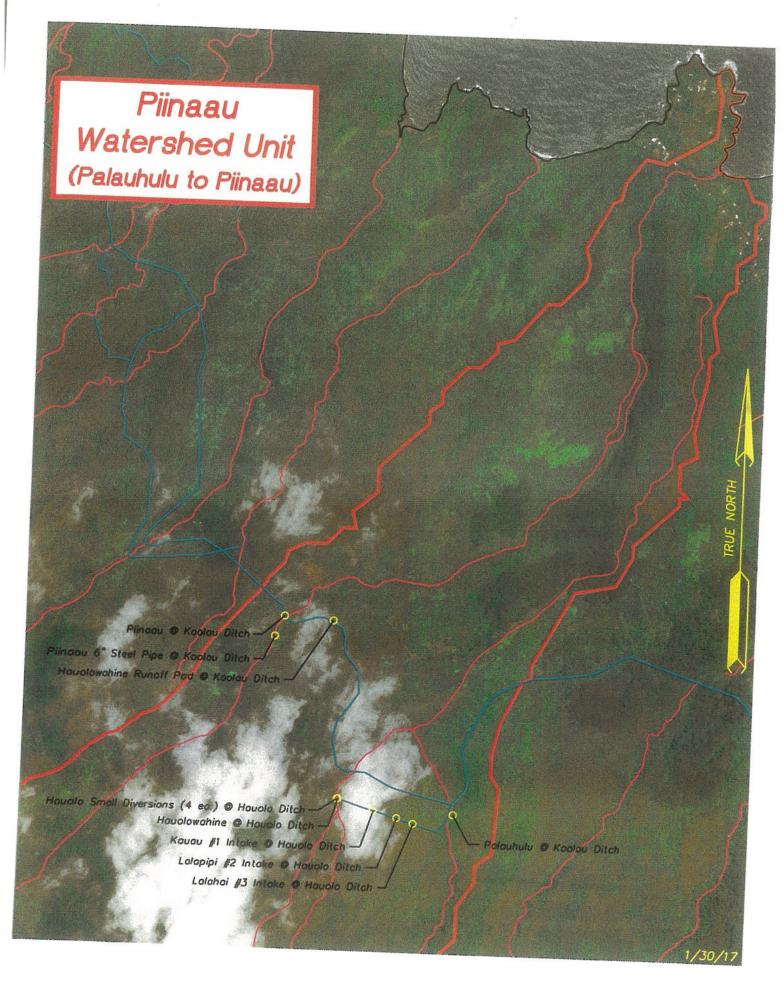
areas; any such materials will be removed from the stream upon completion of the work. Alternatively, where feasible, stream rocks may be re-positioned in the stream for this purpose.

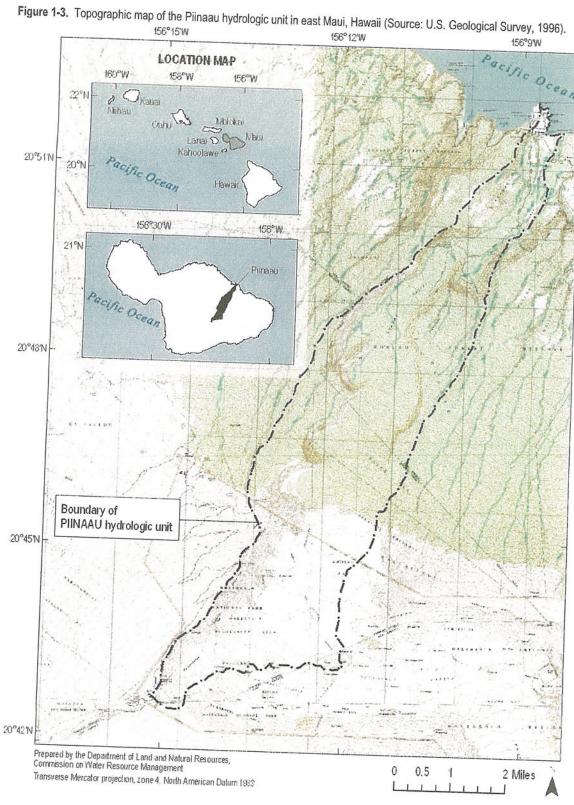
12. Surface areas of wetlands or other areas filled: None – this work is intended to restore flow in the stream and will not result in filling of any wetlands

### 13. Attachments:

Pi'ina'au Hyrdologic/Watershed Unit Maps
USGS Nahiku Quadrangle Map, Site Locations – Pi'ina'au (Palauhulu) Stream
Diversions

Table of Pi'ina'au (Palauhulu) Stream Diversions Site Photographs, Pi'ina'au (Palauhulu) Stream Diversions Conceptual Sketches, Pi'ina'au (Palauhulu) Stream Diversions





Divonsi		- T	Table of Pi	'ina'au (Palauhul	u) Stream Diversions
Diversion	EMI Map #	Latitude Longitude Elevation	TMK No. (owner)	Diversion Structure Type	Description of Work and Amount/Type of Fill Material
Palauhulu at Koolau Ditch (Kano intake at Koolau Ditch)	K-26	20° 48' 56.1" N 156° 9' 44.41" W 1,708 feet	1-1-2:002 (State of Hawaii)	Unlined channel (with tunnel)	Most flow will be restored at this diversion by the removal of a sluice gate. While the scope of work for full restoration has not yet been determined, all work is anticipated to be conducted within the diversion tunnel, outside of the stream. Section 404 is not expected to apply to either the gate removal or the work in the tunnel. See Photo 5 and Figure 4.
Lalahai #3 intake at Hauolo Ditch	K-27	20° 48' 53.85" N 156° 9' 54.45" W 1,970 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with grate and tunnel)	While the scope of work for full restoration at this diversion has not yet been determined, all work is anticipated to be conducted within the diversion tunnel, outside of the stream. Section 404 is therefore not expected to apply. See Photo 6 and Figure 5.
Lalapipi #2 intake at Hauolo Ditch	K-28	20° 48' 55.12" N 156° 9' 58.73" W 2,024 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with tunnel)	While the scope of work for full restoration at this diversion has not yet been determined, all work is anticipated to be conducted within the diversion tunnel, outside of the stream. Section 404 is therefore not expected to apply. See Photo 7 and Figure 6.
Kaauau #1 intake at Hauolo Ditch	K-29	20° 48' 56.82" N 156° 10' 4.71" W 2,037 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with tunnel)	While the scope of work for full restoration at this diversion has not yet been determined, all work is anticipated to be conducted within the diversion tunnel, outside of the stream. Section 404 is therefore not expected to apply. See Photo 8 and Figure 7.
Hauolowahine at Hauolo Ditch (Hauolowahine intake at Hauolo Ditch)	K-30	20° 48' 59.61" N 156° 10' 13.63" W 1,964 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with grate)	In order to prevent flow into the ditch via this diversion, the grate in the diversion must be sealed. This will be accomplished by filling the grate openings with concrete/grout. The amount of fill material (concrete/grout) is anticipated to be no more than one to two cubic yards in volume and will be installed directly on
Hauolo small diversions (one of four) at Hauolo Ditch (Kaauau diversion tunnel to #1 intake)	K-29a	20° 48' 59.58" N 156° 10' 13.85" W 1,964 feet	1-1-2:002 (State of Hawaii)	Unlined channel (with tunnel)	the existing grate. See Photo 9 and Figure 8, attached.  The diversion tunnel will be sealed with rock and concrete. Since all work is anticipated to be conducted within the diversion tunnel, outside of the stream, Section 404 is not expected to apply. See Figure 9, attached (no photo of this diversion is available).
Hauolo small liversions (one of four) at Hauolo Ditch Hauolowahine small ntake)	K-30a	20° 48' 59.58" N 156° 10' 13.85" W 1,964 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with pipe)	A concrete catchment basin captures seepage and routes it to the Hauolo Ditch via a pipe. The pipe will be removed. Removal of the pipe will not require any amount of fill material and Section 404 therefore does not apply. See Photo 10 and Figure 10.
Hauolo small liversions (one of four) it Hauolo Ditch Hauolowahine small ntake)	K-30c	20° 48' 59.58" N 156° 10' 13.85" W 1,964 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with pipe)	A concrete catchment basin captures seepage and routes it to the Hauolo Ditch via a pipe. The pipe will be removed. Removal of the pipe will not require any discharge of fill material and Section 404 therefore does not apply. See Photo 11 and Figure 11.
''ina'au six-inch steel and PVC) pipe at Loolau Ditch	K-31a	20° 49' 37.77" N 156° 10' 30.19" W 1,359 feet	1-1-2:002 (State of Hawaii)	Pipe	A tributary is diverted and routed to the main Pi'ina'au intake via a pipe. The pipe will be removed. Removal of the pipe will not require any amount of fill material and Section 404 therefore does not apply. See Photo 12 and Figure 12.

## <u>Photographs – Alterations to Pi'ina'au (Palauhulu) Stream Diversions</u>

(Photos 5 through 12)

#### Site Photographs - Pi'ina'au (Palauhulu) Stream Diversions

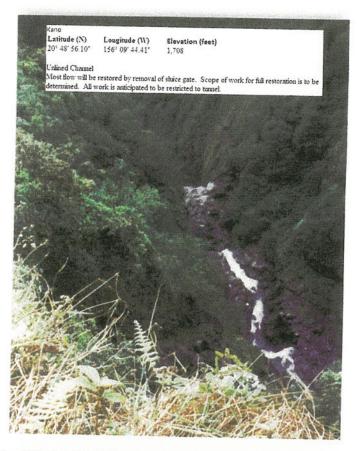
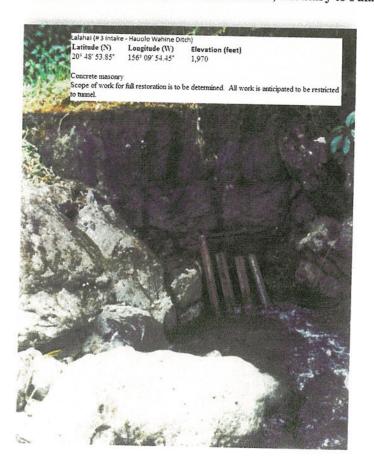


Photo 5 (above): Palauhulu at Koolau Ditch; intake at Kano Stream, tributary to Palauhulu Stream (K-26) Photo 6 (below): Lalahai #3 intake at Hauolo Ditch; at Lalahai Stream, tributary to Palauhulu Stream (K-27)



#### Site Photographs - Pi'ina'au (Palauhulu) Stream Diversions

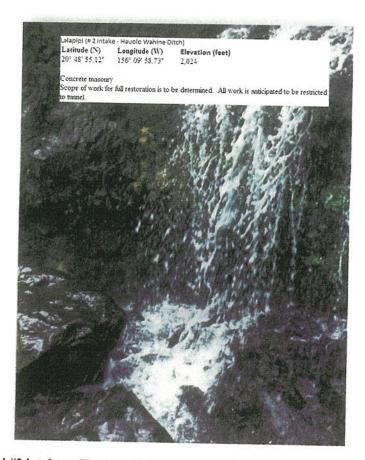
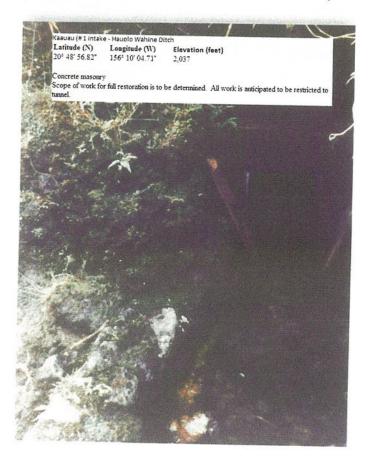


Photo 7 (above): Lalapipi #2 intake at Hauolo Ditch; at Lalapipi Stream, tributary to Palauhulu Stream (K-28) Photo 8 (below): Kaauau #1 intake at Hauolo Ditch; at Kaauau Stream, tributary to Palauhulu Stream (K-29)



### Site Photographs - Pi'ina'au (Palauhulu) Stream Diversions

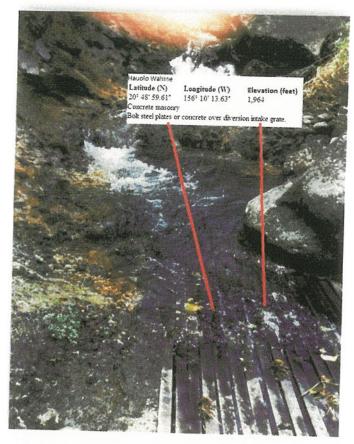
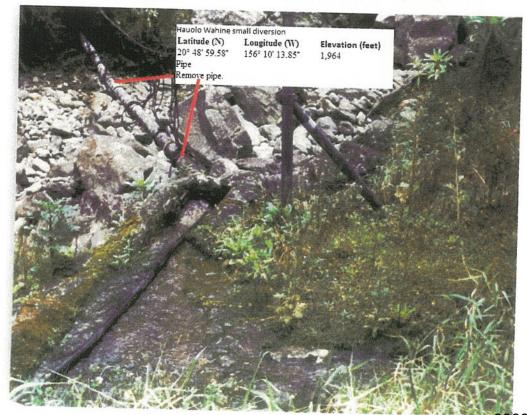


Photo 9 (above): Hauolowahine at Hauolo Ditch; intake at Hauolowahine Stream, tributary to Palauhulu Stream (K-30)

(Note: Disregard references to bolted steel plates. Intakes will be sealed with concrete/grout.)
Photo 10 (below): Hauolowahine small diversions (one of four) at Hauolo Ditch (K-30a)



000040

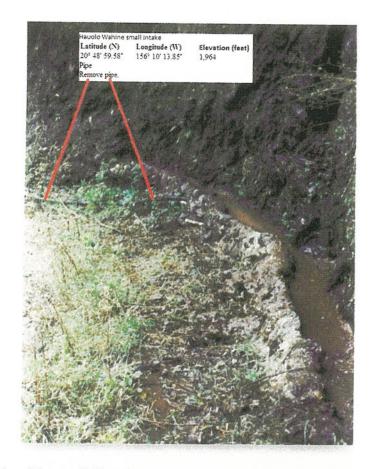


Photo 11 (above): Hauolowahine small diversions (one of four) at Hauolo Ditch (K-30c) Photo 12 (below): Pi'ina'au six-inch steel (and PVC) pipe at Koolau Ditch (K-31a)



# <u>Conceptual Sketches – Alterations to Pi'ina'au (Palauhulu) Stream Diversions</u>

(Figures 4 through 12)

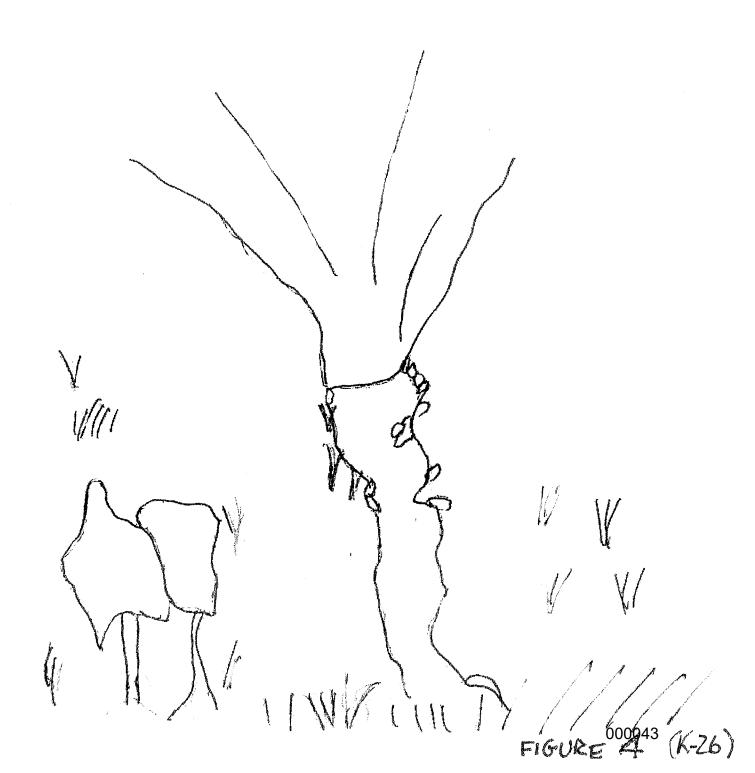
# PALAUHVLU at KOOLAU DITCH

Kano- Ko'olau Ditch

	Takk T Can		The beautiful and the second
į	Latitude (N)	Longitude (W)	Flouris on it-
ļ			Elevation (feet)
ŧ	20 70 30.10	156° 09' 44.41"	1.708
	Discording Carrier		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Diversion Structure Type - Unlined channel

General Description of Work – Most flow will be restored by removal of sluice gate. Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.



LALAHAI#3 Intake at Havolo Ditch

Lalahai (# 3 intake - Hauolo Wahine Ditch)- Ko'olau Ditch

1	Y neither I am	- To to dilling	rucul- ko olau Dit	ci
	Latitude (N)		Eleventine (6 - 15	}
ļ		156° 09' 54.45"	(seec)	
	Diversion Stanton		1,970	

Diversion Structure Type - Concrete masonry

General Description of Work - Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.



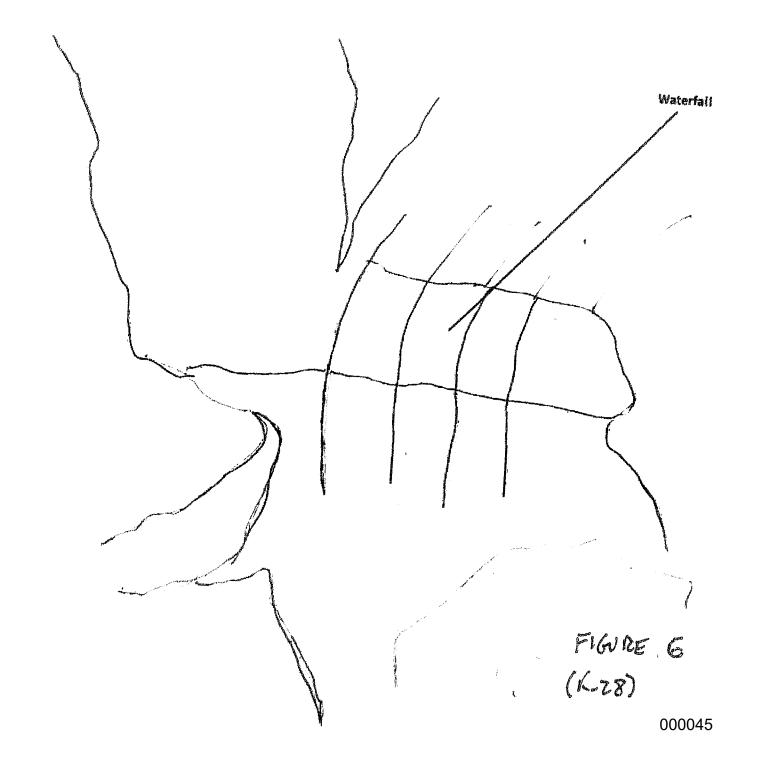
LALAPIPI #Z intake at HAVOLO DITCH

Lalapipi (# 2 intake - Hauoło Wahine Ditch)- Koʻolau Ditch

i	Tation de Con	A MILLIA	Ditch)- Ko olau Ditc	•
	Latitude (N)	Longitude (W)		
1			Elevation (feet)	
	The state of the s	~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2,024	
ı	Diversion Structu	Po Time		

Diversion Structure Type - Concrete masonry

General Description of Work - Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.



KAAUAU#! Intake at HAUOLO DITCH!

Kaauau (# 1 intake - Hauolo Wahine Ditch)- Ko'olau Ditch

Į	Latitude (N)	Longitude (W)	Elevation (feet)	
	20° 48' 56.82"	156° 10' 04.71"	2,037	

Diversion Structure Type - Concrete masonry

General Description of Work – Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.

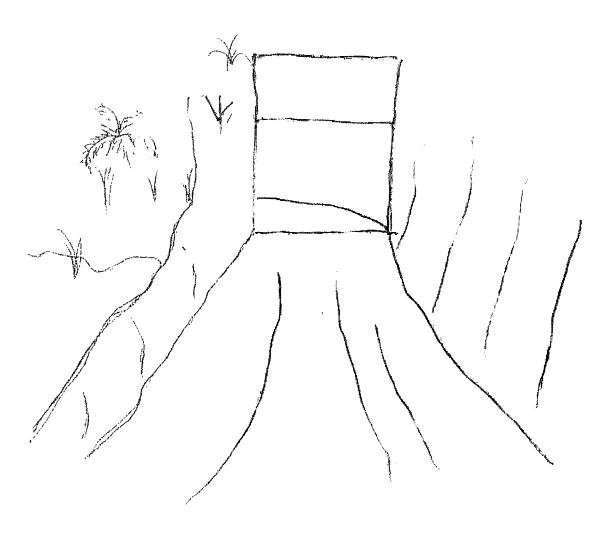


FIGURE 7 (K-ZA)

HA VOLOWAHIWE

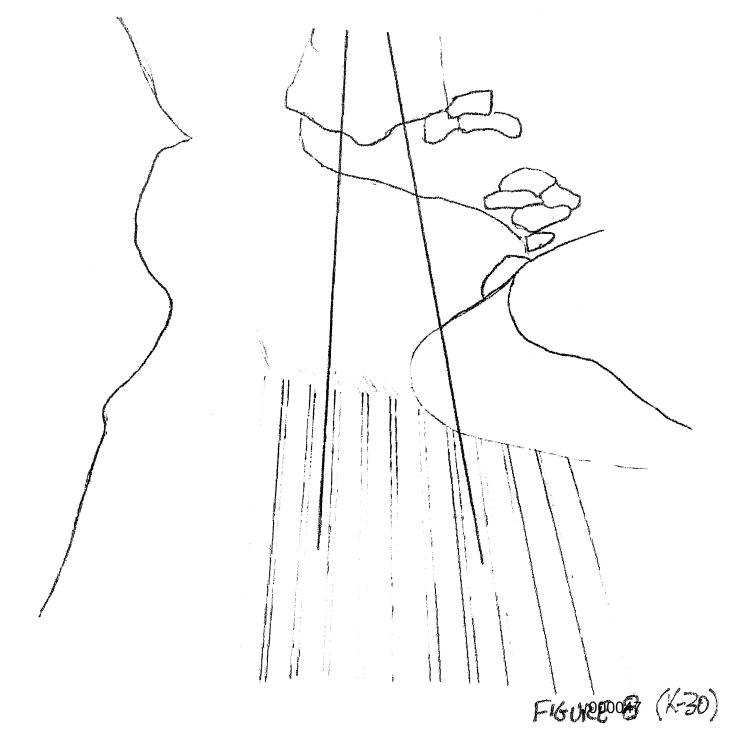
Hauolo Wahine- Ko'olau Ditch

	Longitude (W)	Elevation (feet)	Ì
20° 48' 59.61"	156° 10' 13.63"	1,964	

at HAVOLD DITCH

Diversion Structure Type - Concrete masonry

General Description of Work – Bolt steel plates or concrete over diversion intake grate



HAUDLO Small diversion. (one of few) at HAUDLO DITCH

(KAAVAU diversion tunnel to #1 intake)

Kaauau diversion tunnel to # 1 intaka

Latitude (N) Longitude (W) Elevation (feet 20° 48° 59.58" 156° 10° 13.85" 964

Seal diversion tunnel with rock and concrete.

Makai -Kaanan Stram Kaanan (#1 intaks Handowahing ditch; Haudo Turnel > Seal diversion turnel with rock + coverete Kaauan diversion tunnel to #1 intake

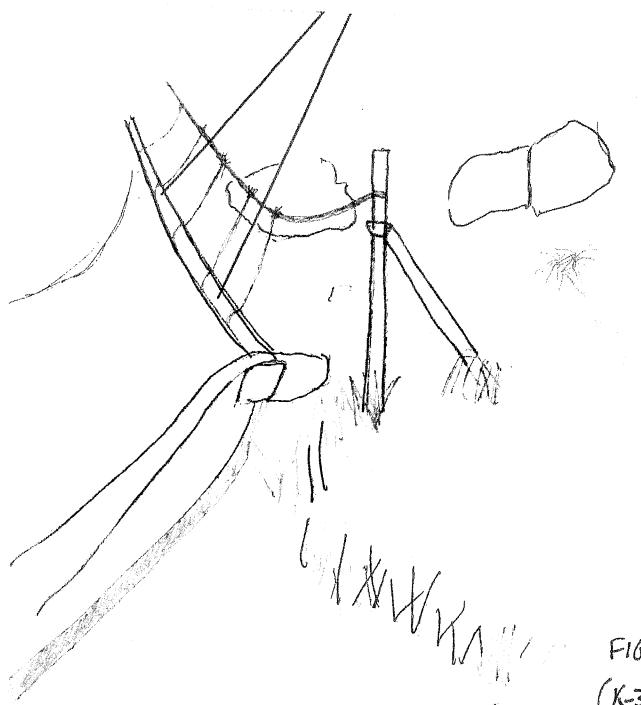
Marko

FIGURE. 9 (K-Z9a)

Hauolo Wahine small diversion-Ko'olau Ditch

Latitude (N)	T	Elevation (feet)
20° 48' 59.58"	156° 10' 13.85"	1,964

Diversion Structure Type – Pipe General Description of Work – Remove pipe. HAUDIO SMALL: DIVERSIONS (ONE of five) at HAUDIO DITCH



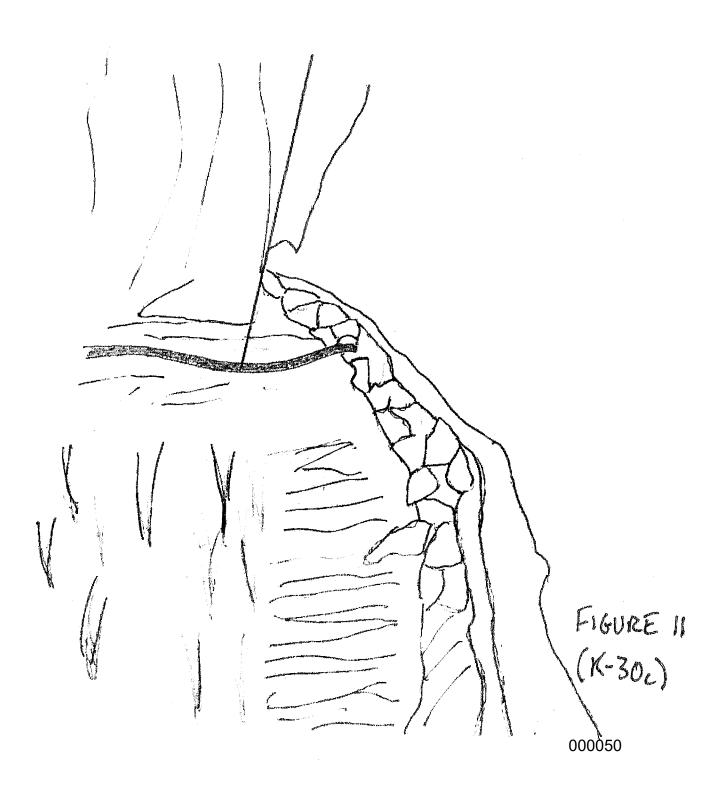
FIGURETO

(-30a) 000049 Hauolo Wahine small intake- Ko'olau Ditch

Latitude (N)	¥	Elevation (feet)
20° 48' 59.58"	156° 10' 13.85"	1,964

Diversion Structure Type – Stone and concrete
General Description of Work – Remove stone and concrete dam.

HAVOLO snall diversions (one of five) at HAVOLO DITCH



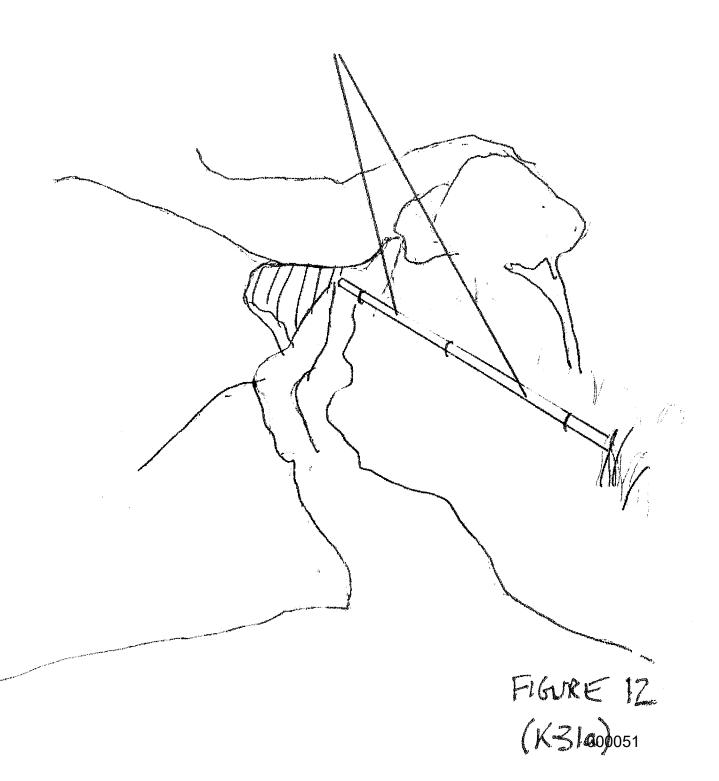
Piinaau - 6" steel and pvc pipe intake- Ko'olau Ditch

Latitude (N)	Longitude (W)	Elevation (feet)
20° 49' 37.77"	156° 10′ 30.19″	1,359
(Marian)	The state of the s	

Diversion Structure Type - Pipe

General Description of Work – Remove steel and pvc pipes.

Pl'WAHU 6-Inch Steel (and PVC) P. Pe at KOOLAU DITCH



### Stream Flow Restoration in East and West Wailuanui Streams **Summary of Relevant Information**

Parties involved in the work: 1.

Organization: East Maui Irrigation Company, LLC

Contact: Sean O'Keefe

Address: P.O. Box 266, Puunene, HI 96784

Telephone: (808) 877-2959

Project name or title: Stream Flow Restoration at Koolau Ditch Diversions on East 2. and West Wailuanui Streams

- Name of water body: East and West Wailuanui Streams 3.
- Project street address: Not applicable 4.
- 5. Location of project: Keanae/Nahiku (Koolau moku), Maui County, Hawaii
- Other location descriptions: See attached Table of East and West Wailuanui Stream 6. Diversions for latitude and longitude, elevation, and Tax Map Key Number of each
- <u>Directions to the site:</u> Please contact East Maui Irrigation Company for directions. 7.
- Nature of activity: See Description of Work on attached Table of East and West 8. Wailuanui Stream Diversions. Except as otherwise noted in the table, all work will be done by hand and no mechanized equipment will be used in the stream. Work will be conducted during low stream flows in order to minimize the potential for any short-term water quality impacts.
- 9. Project purpose: The purpose of the project is to permanently restore flow in East and West Wailuanui Streams.
- Reason for discharge of dredged and/or fill material: Seal openings in existing diversion structures and/or allow stream to pass over irrigation ditch; see attached Table of East and West Wailuanui Stream Diversions. Note that some work proposed to be conducted on these diversions is not anticipated to result in a discharge of dredged and/or fill material.
- Types of material being discharged and the amount in cubic yards: See attached Table of East and West Wailuanui Stream Diversions. In addition to any materials used to permanently alter the configuration of the diversions, sandbags and/or pipes may be temporarily placed in the stream as necessary to divert stream flow around work areas; any such materials will be removed from the stream upon completion of

# Stream Flow Restoration in East and West Wailuanui Streams Summary of Relevant Information (continued)

the work. Alternatively, where feasible, stream rocks may be re-positioned in the stream for this purpose.

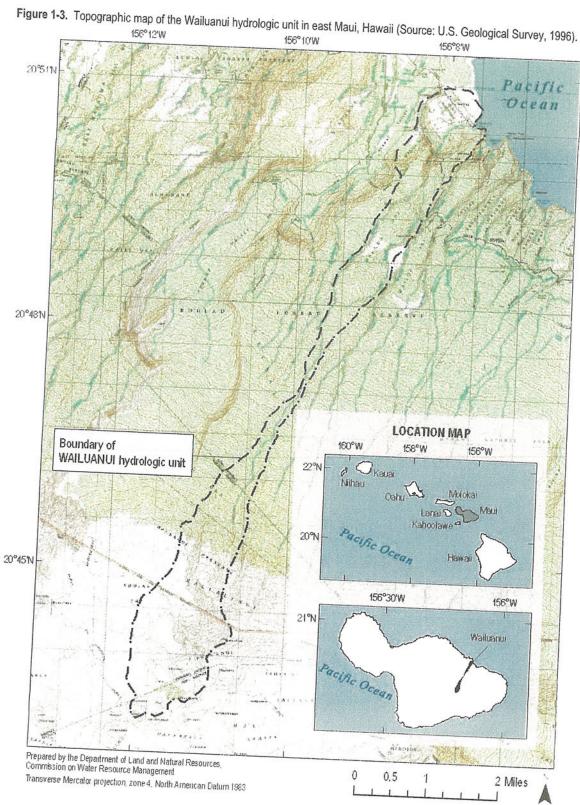
12. <u>Surface areas of wetlands or other areas filled:</u> None – this work is intended to restore flow in the stream and will not result in filling of any wetlands

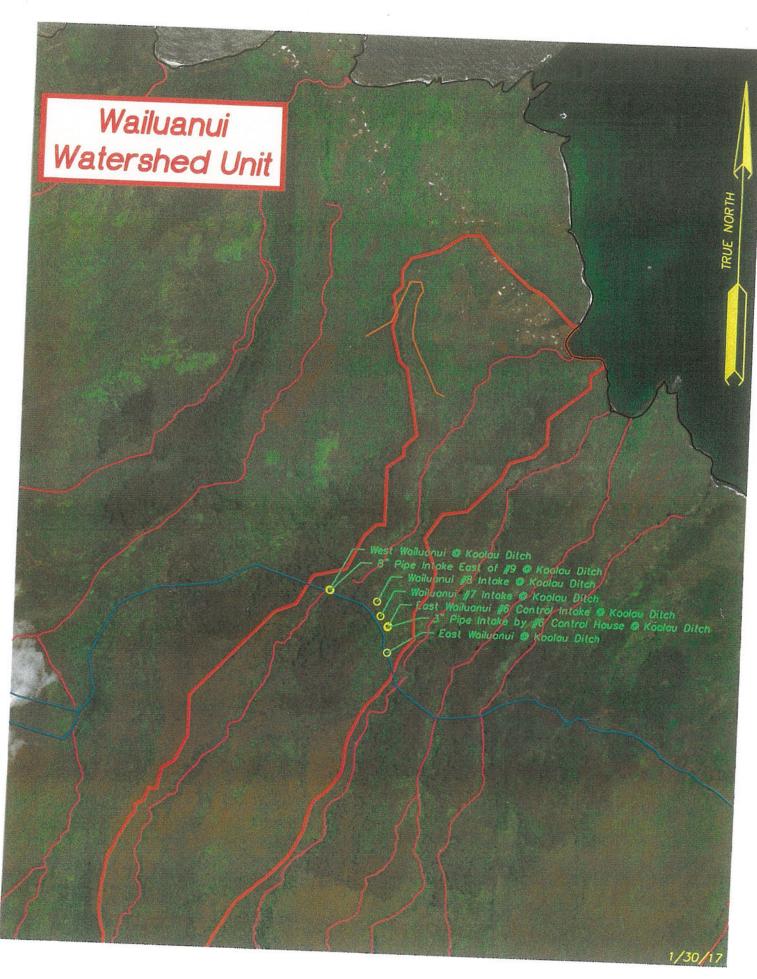
#### 13. Attachments:

Wailuanui Hyrdologic/Watershed Unit Maps
USGS Nahiku Quadrangle Map, Site Locations – East and West Wailuanui Stream
Diversions

Table of East and West Wailuanui Stream Diversions Site Photographs, East and West Wailuanui Stream Diversions Conceptual Sketches, East and West Wailuanui Stream Diversions

	Table of Wailuanui Stream Diversions									
Diversion	EMI Map#	Latitude Longitude Elevation	TMK No. (owner)	Diversion Structure Type	Description of Work and Amount/Type of Fill Material					
Three-inch (aluminum) pipe intake by #6 control house at Koolau Ditch	K-19a	20° 49' 20.14" N 156° 8' 26,8" W 1,287 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with pipe)	A submerged three-inch aluminum pipe embedded in a diversion dam collects water from a tributary and directs it via a pipe to the control house intake. The pipes will be removed. Removal of the pipes will not require any amount of fill material and Section 404 therefore does not apply. See Photo 13 and Figure 13, attached.					
Wailuanui #8 intake at Koolau Ditch	K-20a	20° 49' 26.1" N 156° 8' 29.54" W 1,254 feet	1-1-2:002 (State of Hawaii)	Concrete masonry (with pipe)	This diversion consists of a concrete masonry wall which captures seepage and then pipes it to an access tunnel and into the Koolau Ditch. The pipes will be removed. Removal of the pipes will not require any amount of fill material and Section 404 therefore does not apply. See Photo 14 and Figure 14, attached.					
Eight-inch (steel) pipe intake east of #9 (intake) at Koolau Ditch	K-21a	20° 49' 28.58" N 156° 8' 41.45" W 1,280 feet	1-1-2:002 (State of Hawaii)	Pipe	This diversion consists of a rock wall which captures seepage and then pipes it to the Koolau Ditch via the #9 intake. The pipe will be removed. Removal of the pipe will not require any amount of fill material and Section 404 therefore does not apply. See Photo 15 and Figure 15, attached.					





# <u>Photographs – Alterations to East and West Wailuanui Stream Diversions</u>

(Photos 13 through 15)

#### Site Photographs - East and West Wailuanui Stream Diversions



Photo 13 (above): Three-inch (aluminum) pipe intake by #6 control house at Koolau Ditch (K-19a) Photo 14 (below): Wailuanui #8 intake at Koolau Ditch (K-20a)





Photo 15 (above): Eight-inch (steel) pipe intake east of #9 (intake) (K-21a)

Conceptual Sketches – Alterations to East and West Wailuanui Stream Diversi	ons
(Figures 13 through 15)	

Latitude (N) BY #6 ONTRUL Longitude (W) Elevation (feet) 20° 49' 20.14" 156° 08' 26.80" 1,287 HOUSE AT Pipe Remove pipe KOOLAN DITCH Remove 3'alumnam p.pe intakp East Wailwamer tributary Koolan Ditch Koolan Ditch -> East Wailwarm #6 control house intake

3" aluminum pipe intake by # 6 control house intake

FIGURE 13 (K-19a) 000061

THREE-WCH

(ALUMINUM)

PIPE WTAKE

Wailuanui stream intake # 8 intake pipe- Ko'olau Ditch

	W		Pibe un alan Discul	
1	Latitude (N)	Longitude (W)	Elevation (feet)	
-	20° 49' 28.58"	156° 08' 41.45"	1,280	
	Pa :		1 - 2 - 0 - 0	i

Diversion Structure Type – Pipe General Description of Work – Remove pipe WAILVANUI #8 INTAKE AT KOOLAN DITCH

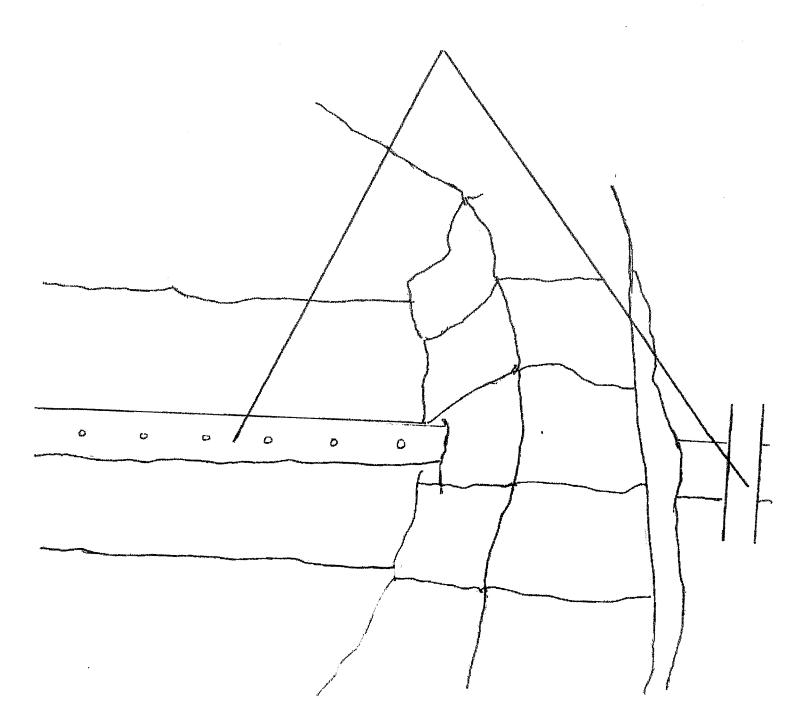


FIGURE 14 (K-ZOa) 000062 8" steel pipe intake East of # 9 intake

Latitude (N) Longitude (W) Elevation (feet) 20° 49' 28.58" | 156° 08' 41.45" 1,280

Remove pipe

EIGHT-INCH (STEEL) PIPE INTAKE EAST OF 49 (WITHKE) AT MOOLAN DITCH

Remove pipe Wai I warne O"steel pipe intoka East of #9 mitaka -#9 INTAK EMI access road

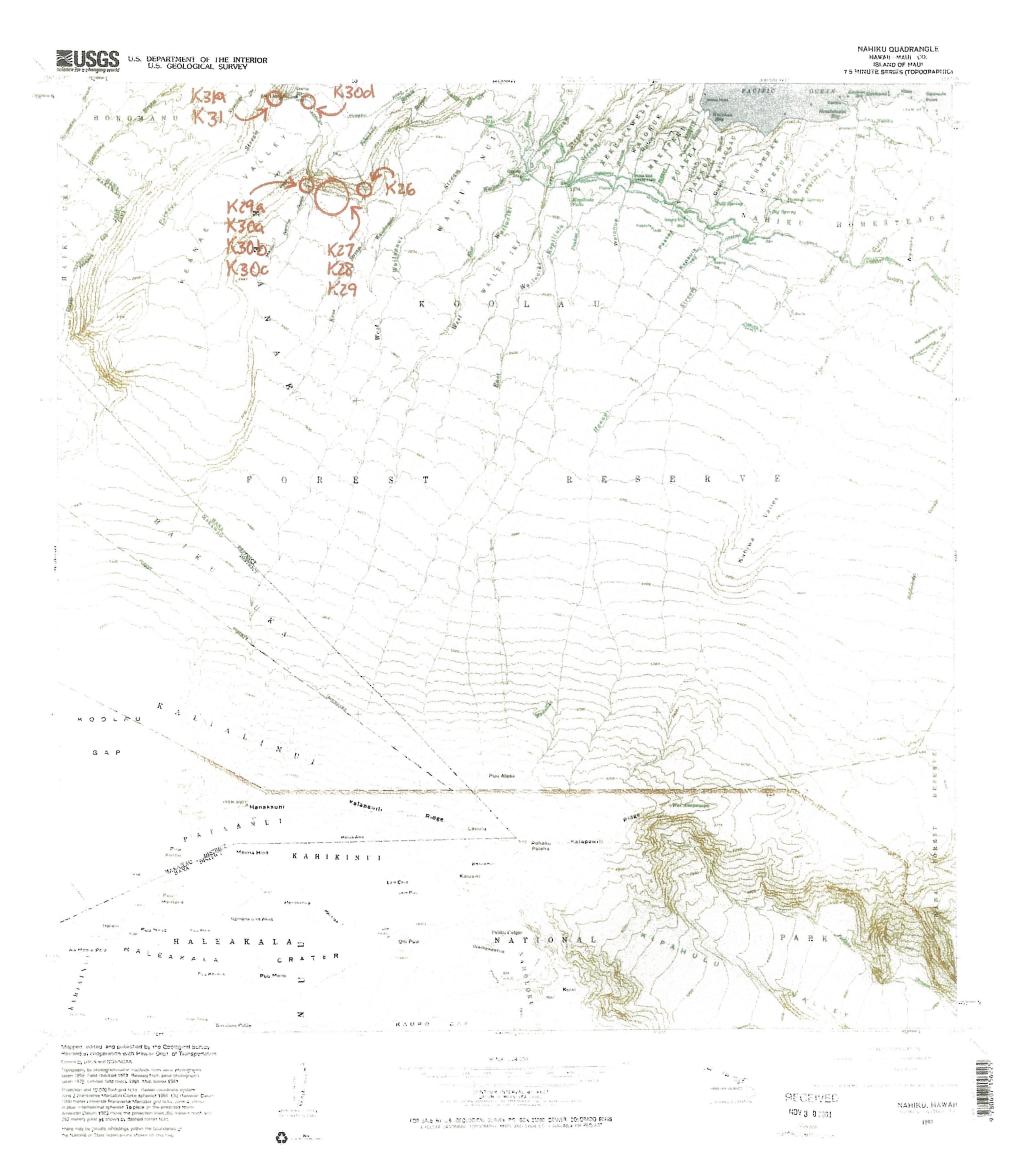
FIGURE 15 (K-Z1000063

	-					7	EMI Taro Str	ream Diversio	ns	T					
Underland			Possible Regulato	ry Approvals Requir	ed					Approximate I	ocation and Elevi	ation of Diversion	-	Diversion	General Description of Work
Hydrologic Unit	Stream	Army Corps	DLNR-OCCL	SMA	CWRM category	DIVERSIONS BY DITCH	EMI Map #	Parcel	Owner	Latitude (N)	Longitude (W)	Elevation (feet)	On Ditch	Structure Type	General Description of Work
Honopou (6034)	Honopou	confirmed exempt under CWA 404(f)(1)(c)	Site Plan - P Subzone	Not in SMA	Group Permit - Discontinued Use, Minor Work	Honopou at Wailoa Ditch	W-22 152.6	2-8-008:007 2-9-014:001	State of HI	20° 53' 08.50"	156" 15' 08.90"	1,217	NO	Congosto gueroda	Y Concrete over diversion intake grate.
Honopou	Попорои	confirmed exempt under		NOC III SINIS	Group Permit - Discontinued Use,	Toropod at Wanda Ditti	W-22b	2-5-014.001	(FR)	20 33 00.30	130 13 00.90	1,217	110	Concrete mason y	Concrete over diversion make gime.
(6034)	Honopou	CWA 404(f)(1)(c)	Site Plan - P/R Subzon	e Not in SMA	Minor Work Group Permit -	Wallole at Walloa Oitch	minor	2-8-008:007	EMI	20° 53' 09.03"	156" 15' 24.54"	1,239	NO	Concrete masonry	Concrete over diversion intake grate.
Honopou (6034)	Honopou	No fill required	Not in Conservation District	Not in SMA	Discontinued Use, Minor Work	Honopou at Lowrie Ditch (side ditch)	L-17 210.6	2-9-014:017	State of HI (FR)	20° 54' 31.79"	156° 15' 01.66"	605	NO	Concrete masonry	Close existing control gate.
Pi'ina'au (6053)	Pi'ina'au	confirmed exempt under CWA 404(f)(1)(c); no fill	Site Plan - P/R subzon (very minor)	e Not in SMA	Group Permit - Discontinued Use, Minor Work	Pilnsau 6-inch steel (and pvc) pipe at Koolau Ditch	K-31a minor	21-002:002	State of HI (FR)	20° 49' 37.77"	156° 10' 30.19"	1,359	NO	Pipe	Remove steel and pvc pipes.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1); scope not yet determined, but work will be in tunnel	Site Plan - P Subzone	Not in SMA	Group Permit - Discontinued Use, Minor Work	Palauhulu at Koolau Ditch (Kano)	K-26 318.6	1-1-002:002	State of HI (FR)	20° 48' 56.10"	156° 09′ 44.41″	1,708	NO	Unlined channel (with tunnel)	Most flow will be restored by removal of sluice gate. Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1); scope not yet determined, but work will be in tunnel		Not in SMA	Group Permit - Discontinued Use, Minor Work	Lalahai # 3 intake at Hauolo Ditch	K-27 319.6	1-1-002:002	State of HI (FR)	20° 48" 53.85"	156' 09' 54.45"	1.970		Concrete masonly (with grate and tunnel)	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1); scope not yet determined, but work will be in tunnel	1	Not in SMA	Group Permit - Discontinued Use, Minor Work	Lalapipi # 2 intake at Hauolo Ditch	K-28 312.6	1-1-002:002	State of HI (FR)	20° 48° 55.12"	156' 09' 58.73"	2,024	NO	Concrete masonly (with tunnel)	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1); scope not yet determined, but work will be in tunnel	Site Plan - P Subzone	Not in SMA	Group Permit - Discontinued Use, Minor Work	Kaauau # 1 intake at Hauolo Ditch	K-29 311.6	1-1-002:002	State of HI (FR)	20° 48' 56.82"	156° 10' 04.71"	2,037	NO	Concrete masonly (with tunnel)	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.  Anticipate sealing grate into tunnel with concrete.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1)(c)	Site Plan - P Subzone	Not in SMA	Group Permit - Discontinued Use, Minor Work	Hauolowahine at Hauolo Ditch	K-30 309,6	1-1-002:002	State of HI	20° 48' 59.61"	156° 10' 13.63"	1.964	NO	Concrete masonry (with grate)	Concrete over diversion intake grate.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1)(c); work will be in tunnel	Site Plan - P Subzone	Not in SMA	Group Permit - Discontinued Use, Minor Work	Hattolo small diversions at Haudio Ditch (Kazwau diversion to H 1 intake)	unnel K-29a minor	1-1-002:002	State of HI	20° 48' 59,58"	156° 10' 13.85"	1,964		Unlined channel	Seal diversion tunnel with rock and concrete.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1)(c); no fill	Site Plan - P Subzone (very minor)	Not in SMA	Group Permit - Discontinued Use, Minor Work	Haudio small diversions at Haudio Ditch (Haudiowahine sma Intake)	K-30a minor	1-1-002:002	State of HI (FR)	20° 48' 59.58"	156° 10' 13.85"		NO	Concrete masorry with pipe	Remove pipe.
Pi'ina'au (6053)	Palauhulu	confirmed exempt under CWA 404(f)(1)(c); no fill	Site Plan - P Subzone (very minor)	Not in SMA	Group Permit - Discontinued Use, Minor Work	Hauolo smail diversions at Hauolo Ditch (Hauolowahine sma intake)	K-30c minor	1-1-002:002	State of HI (FR)	20° 48' 59.58"	156° 10' 13.85"	1,964	NO	Concrete masorry with pipe	Remove pipe.
Wailuanui (6056)	Wailuanui (East and West)		Site Plan - P Subzone	Not in SMA	Group Permit - Discontinued Use, Minor Work	3-inch (aluminum) pipe intake by #6-control house at Koolar	K-19a	1-1-002:002	State of HI (FR)	30 N 3 3 4 4 4 4 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	156° 08' 26.80"		NO		Remove pipe.
Wailuanui (6056)	Wailuanui (East	confirmed exempt under CWA 404(f)(1)(c); no fill	Site Plan - P Subzone (very minor)	Not in SMA	Group Permit - Discontinued Use, Minor Work	Wallushui #8 Intake at Koolau Ditch	K-20a minor	1-1-002:002	State of HI	20° 49' 26.10"	156° 08' 29.54"	1.254	NO	Concrete masonry with pipe	Remove pipe
Wailuanui (6056)	Wailuanui (East		Site Plan - P/R Subzone		Group Permit - Discontinued Use, Minor Work	Sundh (steel) pipe intake east of #9 Intake as Koolau Ditch	K-21a minor		State of HI		156" 08" 41.45"			Rock wall with	Remove pipe

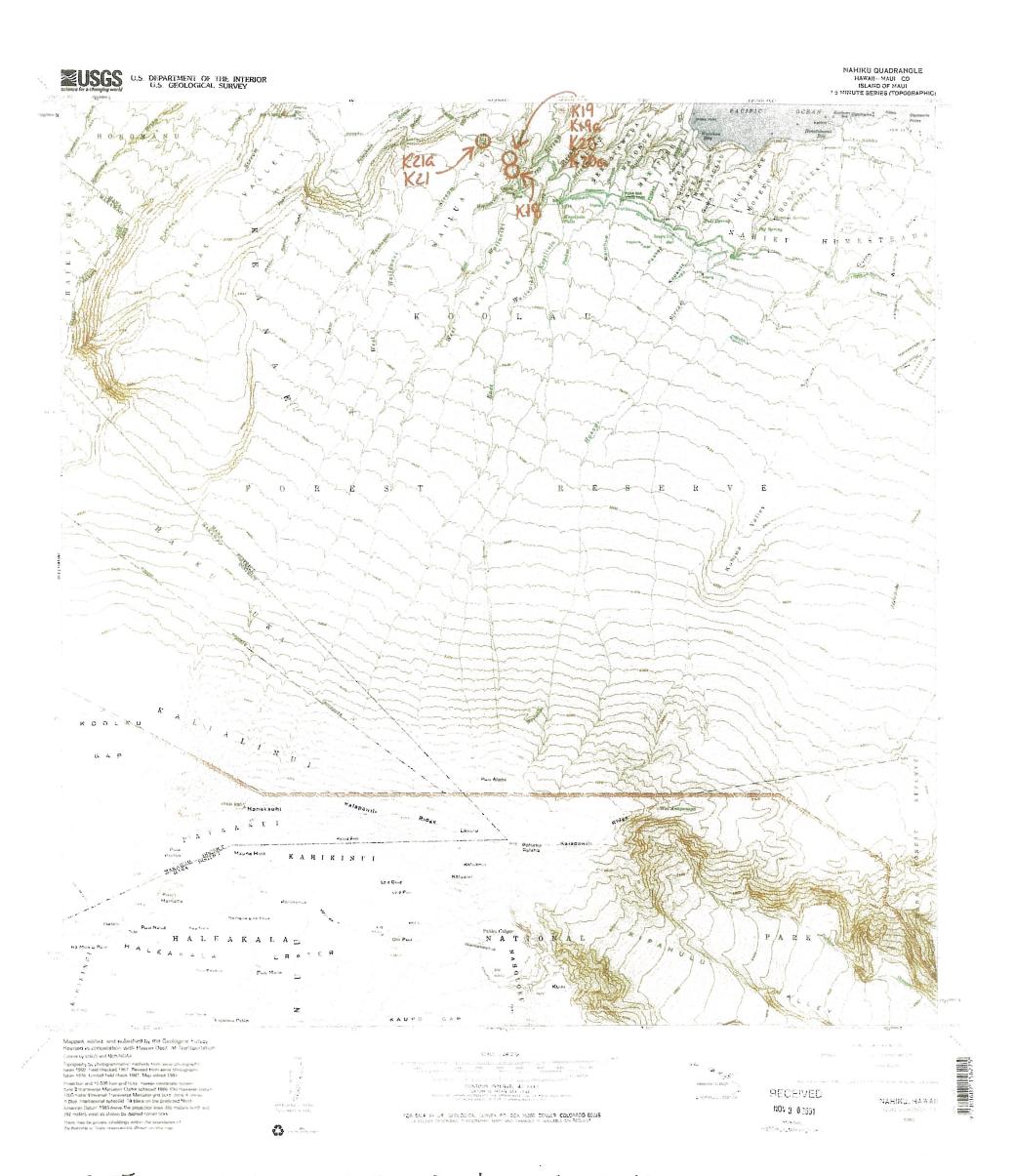
Category 2/July 19, 2018



SITE LOCATIONS-HONOPOU STREAM DIVERSIONS



SITE LOCATIONS - PI'INA'AU (PALAUHILU) STREAM DIVERSIONS



SITE LOCATIONS - EAST AND WEST VAILVANUI STREAM DIVERSIONS