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COMMISSION ON WATER RESOURCE MANAGEMENT
STATE OF HAWAII

PETITION TO AMEND INTERIM
INSTREAM FLOW STANDARDS FOR
HONOPOU, HUELO (PUOLUA),
HANEHOI, WAIKAMOI, ALO,
WAHINEPEE, PUOHOKAMOA,
HAIPUAENA, PUNALAU/KOLEA,
HONOMANU, NUAAILUA, PIINAAU,
PALAUHULU, OHIA (WAIANU),
WAIOKAMILO, KUALANI, WAILUANUI,
WEST WAILUAIKI, EAST WAILUAIKI,
KOPILIULA, PUAKAA, WAIOHUE,
PAAKEA, WAIAAKA, KAPAULA,
HANAWI, AND MAKAPIPI STREAMS

Case No. CCH-MA13-01

**HAWAIIAN COMMERCIAL & SUGAR
COMPANY'S EXHIBIT LIST IN RE-
OPENED EVIDENTIARY HEARING;
CERTIFICATE OF SERVICE**

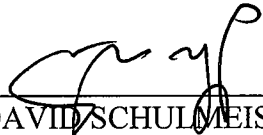
**HAWAIIAN COMMERCIAL & SUGAR COMPANY'S
EXHIBIT LIST IN RE-OPENED EVIDENTIARY HEARING**

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>REFERENCES</u>
C-152	12/11/2015 Testimony of William J. Aila, Jr., Deputy to the Chairman Department of Hawaiian Home Lands to the Board of Land and Natural Resources on Item D- 14, Annual Renewal of Revocable Permits on the IEMI map of the ditch system which shows the four license areas as well as the EMI owned portions of the watersheds	Declaration of Elijah Yip at ¶ 2

<u>EXHIBIT NUMBER</u>	<u>DESCRIPTION</u>	<u>REFERENCES</u>
C-153	01/06/2016 Press Release, "Alexander & Baldwin Announces Transition of Hawaiian Commercial & Sugar Company to a Diversified Farm Model"	Declaration of Rick W. Volner, Jr. at ¶ 3
C-154	04/22/2016 Letter from Christopher Benjamin to Commission on Water Resource Management	Declaration of Rick W. Volner, Jr. at ¶ 8
C-155	Map of uses in HC&S' Diversified Agricultural Plan	Declaration of Rick W. Volner, Jr. at ¶ 15
C-156	Table of Irrigation Requirements of Crops in HC&S' Diversified Agricultural Plan	Declaration of Rick W. Volner, Jr. at ¶ 18
C-157	Evapotranspiration and Crop Co-efficient Data	Declaration of Rick W. Volner, Jr. at ¶ 18
C-158	Work Plan For Restoration of Taro Streams	Declaration of Garret Hew at ¶ 13

DATED: Honolulu, Hawaii, October 17, 2016.

CADES SCHUTTE LLP



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GOVERNOR
STATE OF HAWAII



JOBIE M. K. MASAGATANI
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HAWAIIAN HOMES COMMISSION

SHAN S. TSUTSUI
LT. GOVERNOR
STATE OF HAWAII

WILLIAM J. AILA, JR.
DEPUTY TO THE CHAIRMAN

STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS

P. O. BOX 1879
HONOLULU, HAWAII 96805

TESTIMONY OF WILLIAM J. AILA, JR., DEPUTY TO THE CHAIRMAN
DEPARTMENT OF HAWAIIAN HOME LANDS
TO THE BOARD OF LAND AND NATURAL RESOURCES ON
ITEM D-14, ANNUAL RENEWAL OF REVOCABLE PERMITS ON THE ISLANDS OF
HAWAI'I, MAUI, MOLOKA'I, KAUA'I, AND O'AHU

December 11, 2015

Aloha members of the State of Hawai'i Board of Land and Natural Resources (BLNR). Please find below the Department of Hawaiian Home Lands' (DHHL) comments and objections to the staff recommendation to approve Item D-14 "Annual Renewal of Revocable Permits on the Islands of Hawai'i, Maui, Moloka'i, Kaua'i and O'ahu," on the December 11, 2015 BLNR meeting agenda.

Comment & Objection #1: The lack of information provided in the submittal is insufficient to notify DHHL of potential impacts on its rights and interests.

The State and its subdivisions have duties to protect DHHL's rights in water resources as enumerated in the Hawaiian Homes Commission Act, 1920, as amended, §§ 101(4), 220, 221; the Hawai'i Constitution, Article XI, §§ 1 and 7; and Chapters 171 and 174C, Hawaii Revised Statutes (HRS). HRS § 171-58(c) provides in pertinent part:

Disposition of water rights may be made by lease at public auction as provided in this chapter or by permit for temporary use on a month-to-month basis under those conditions which will best serve the interests of the State and subject to a maximum term of one year and other restrictions under the law[.]

It is important to note that DHHL has both the right and duty to seek reservations of water for its foreseeable needs and to derive revenue from the state when the BLNR leases or licenses water resources.

The list of revocable permits (RPs) DLNR staff have recommended for renewal in Exhibit 2 of the Staff Submittal lacks basic information DHHL, as well as BLNR, require to carry out their duties to fulfill their missions and to protect public

trust uses of water and related resources. The mere listing of these RPs does not provide information sufficient to determine whether renewal of these RPs "serve the interests of the State."

Exhibit 2 notes that DLNR is utilizing a HRS Chapter 343 exemption from environmental review law, which would otherwise provide information on the impacts of approving RPs. HRS Chapter 343 contains clear language requiring that EAs examine the impacts of proposed actions on Hawaiian rights, including those of DHHL.

DHHL holds lands on Hawai'i, Maui, Moloka'i, Kaua'i and O'ahu islands, many of which are or appear to be adjoining to these RPs lands and/or appear to be utilizing or in need of water sources also used for the RPs. The permitting of these water resource uses may implicate significant DHHL interests and rights. More information about these RPs is required to determine whether and how these interests and rights may be affected. For example, Exhibit 2 includes a RP dating to 1995 for use of 23,408.46 acres for an annual rent of \$156. Further information about the methods and standards used to calculate a < \$0.01/ acre annual rent, or other public benefits accruing from this RP, should be provided in order to ascertain whether approval of such an RP is consistent with requirements of fair compensation for use of public trust resources.

Objection #2: Ongoing, ministerial re-permitting of these water resource uses raises serious procedural issues that should be addressed.

Rote renewal of RPs raises procedural issues because full consideration of the impacts of permitted uses appears to be indefinitely deferred. Exhibit 2 includes an RP that has been continuously renewed since 1954. Very few of these RPs appear to be temporary uses, which is the purpose of RPs from a plain reading of the statute.

For the potential benefit of the BLNR, we note that in 2014, DHHL and the Hawaiian Homes Commission addressed concerns that it had been routinely renewing RPs use of lands. DHHL responded to these concerns by, amongst other things, following recommendations produced by an Ad Hoc Advisory Group. Those recommendations included: (1) ceasing issuance of new RPs; (2) reviewing existing RPs for violations of conditions; and (3) transitioning existing RPs to "rights of entry." DHHL's

Board of Land and Natural Resources
Testimony - Item D-14 - Annual Renewal of Revocable Permits
December 11, 2015
Page 3

revisions of its RP programs are ongoing and responsive to beneficiary concerns and mindful of our public trust obligations.

Conclusion:

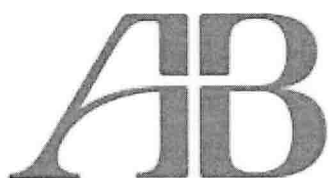
Mahalo nui for your efforts to administer these RPs. DHHL seeks the development of a RP management program that fully, publicly, and expressly addresses the ways approving these RPs is consistent with the best interests of the state, including the interests of DHHL, and the public trust. Please direct any questions to me at (808) 620-9501, or your staff may contact Kaleo Manuel in our Planning Office at (808) 620-9485 or at Kaleo.L.Manuel@hawaii.gov.

(<http://www.prnewswire.com/>)

Alexander & Baldwin Announces Transition Of Hawaiian Commercial & Sugar Company To A Diversified Farm Model

Jan 06, 2016, 17:10 ET from Alexander & Baldwin, Inc.

(<http://www.prnewswire.com/news/alexander--baldwin-inc>)



ALEXANDER & BALDWIN, INC.

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HONOLULU, Jan. 6, 2016 /PRNewswire/ -- **Alexander & Baldwin, Inc.** (NYSE: ALEX (<http://studio-5.financialcontent.com/prnews?Page=Quote&Ticker=ALEX>)) ("A&B" or "Company") today announced that it is transitioning out of farming sugar and will instead pursue a diversified agricultural model for its 36,000-acre Hawaiian Commercial & Sugar Company ("HC&S") plantation on Maui. Sugar operations will be phased out by the end of 2016, and the transition to a new model will occur over a multi-year period. No immediate layoffs will result from today's announcement and approximately half of the 675 employees will be retained through the end of the sugar harvest, which is expected to be completed late in 2016. Beginning in March, employees will be laid off as their specific functions are completed. Under the new

diversified model, the plantation is planned to be divided up into smaller farms with varied agricultural uses, potentially including energy crops, food crops, support for the local cattle industry, and the development of an agriculture park.

"A&B's roots literally began with the planting of sugar cane on 570 acres in Makawao, Maui, 145 years ago," said Stanley M. Kuriyama, A&B executive chairman. "Much of the state's population would not be in Hawaii today, myself included, if our grandparents or great-grandparents had not had the opportunity to work on the sugar plantations. A&B has demonstrated incredible support for HC&S over these many years, keeping our operation running for 16 years after the last sugar company on Maui closed its doors. We have made every effort to avoid having to take this action. However, the roughly \$30 million Agribusiness operating loss we expect to incur in 2015, and the forecast for continued significant losses, clearly are not sustainable, and we must now move forward with a new concept for our lands that allows us to keep them in productive agricultural use."

"This is a sad day for A&B, and it is with great regret that we have reached this decision," said Christopher J. Benjamin, A&B president and chief executive officer, who ran HC&S as its general manager from 2009 to 2011. "Having had the privilege of working alongside the employees of HC&S for two years, I know firsthand the professionalism and dedication with which they perform their jobs. The longevity of the plantation is a testament to their resourcefulness and hard work. This transition will certainly impact these employees and we will do everything we can to assist them. The cessation of sugar operations also will have a significant impact on the Maui community and we will do our best to minimize that impact. A&B remains committed to Maui and will continue to be a significant corporate supporter of Maui charities and organizations."

Employee Transition & Support

A&B is committed to supporting its impacted employees. The Company will provide transition coordinators to assist HC&S employees in finding alternate employment opportunities. The coordinators will identify and coordinate available federal, state, county and private job assistance programs (including employment counseling, job training, financial counseling, job placement and education services). A&B will offer all employees enhanced severance and benefit packages. Retirement benefits accrued by eligible employees, retirees, and past employees will not be affected by the transition out of sugar. Additionally, the Company will consider displaced employees for positions in its new operations as they become available.

"We are very focused on helping our employees during this time," Benjamin said. "Many of our employees have dedicated their careers to HC&S and have followed in the footsteps of previous generations of family members that worked on the plantation. We are grateful for their years of service and we will support them through this transition period."

Transition to Diversified Agriculture

"A&B is committed to looking for optimal productive agricultural uses for the HC&S lands," said Benjamin. "Community engagement, resource stewardship, food sustainability and renewable energy are all being considered as we define the new business model for the plantation. These are leading us toward a more diversified mix of operations."

The Company is evaluating several categories of potential replacement agricultural activities. These include energy crops, agroforestry, grass-finished livestock operations, diversified food crops, and orchard crops, among others.

HC&S has several test projects underway to further assess these opportunities, and the Company plans to expand the scope and scale of the trials during the coming year. Initial projects include:

- **Energy crops:** Building upon its extensive experience with crop-to-energy production, HC&S has initiated crop trials to evaluate potential sources of feedstock for anaerobic conversion to biogas. This on-farm testing currently is being expanded from plot to field-scale and HC&S has entered into a confidential memorandum of understanding with local and national partners to explore market opportunities for biogas. HC&S also is assessing the potential of cultivating purpose-grown oilseed crops for biodiesel production and has entered into preliminary, but confidential, discussions with other bioenergy industry players to explore additional crop-to-energy opportunities.
- **Support for the local cattle industry:** The Company is exploring the costs and benefits of irrigated pasture to support the production of grass-finished beef for the local market. HC&S has converted a test site of former sugar land to cultivated pasture and is working with Maui Cattle Company to conduct a grass-finishing pasture trial in 2016. High-quality grazing lands could enable Maui's cattle ranchers to expand their herds and keep more cattle in Hawaii for finishing on grass.
- **Food crops/Agriculture park:** A&B plans to establish an agriculture park on former sugar lands in order to provide opportunities for farmers to access these agricultural lands and support the cultivation of food crops on Maui. HC&S employees will be given preference to lease lots from the company to start their own farming operations.

"Transitioning HC&S to a diversified agribusiness model underscores A&B's commitment to the community and our intention to keep these lands in active agricultural use," said Benjamin. "It will take time but, if successful, these efforts could support the goals of food and energy self-sufficiency for Hawaii, preserve productive agricultural lands, and establish new economic engines for Maui and the state."

ABOUT HAWAIIAN COMMERCIAL & SUGAR

Hawaiian Commercial & Sugar Company is the state's largest farm, with 36,000 acres under cultivation. The Company also generates enough electricity, primarily from renewable sources, to be 100% energy self-sufficient. For more information, please visit www.hcsugar.com (<http://www.hcsugar.com/>).

ABOUT ALEXANDER & BALDWIN

Alexander & Baldwin, Inc. is a Hawaii-based public company, with interests in real estate development, commercial real estate, agriculture, materials and infrastructure construction. With ownership of over 88,000 acres in Hawaii, A&B is the state's fourth largest private landowner, and one of the state's most active real estate investors. The Company manages a portfolio comprising five million square feet of leasable space in Hawaii and on the U. S. Mainland and is the second largest owner of retail assets in the state. A&B also is Hawaii's largest materials company and paving contractor.

Additional information about A&B may be found at www.alexanderbaldwin.com (<http://www.alexanderbaldwin.com>).

FORWARD-LOOKING STATEMENTS

Statements in this press release that are not historical facts are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, that involve a number of risks and uncertainties that could cause actual results to differ materially from those contemplated by the relevant forward-looking statement. These forward-looking statements are not guarantees of future performance. This release should be read in conjunction with pages 17-30 of Alexander & Baldwin, Inc. 's 2014 Form 10-K and other filings with the SEC through the date of this release, which identify important factors that could affect the forward-looking statements in this release. We do not undertake any obligation to update our forward-looking statements.

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SOURCE Alexander & Baldwin, Inc.

CHRISTOPHER J. BENJAMIN
President & Chief Executive Officer

April 22, 2016

Commission on Water Resource Management
State of Hawaii
1151 Punchbowl Street
Honolulu, HI 96813

Dear Chair Case and Members of the Commission on Water Resource Management:

On January 6, 2016, Hawaiian Commercial & Sugar Company announced that it would be ceasing sugar operations at the end of the year, and transitioning to a diversified agricultural model for its prior sugar lands. While this transition presents many challenges, it also presents some opportunities.

One such opportunity is the restoration of stream flow for taro cultivation in East Maui. The purpose of this letter is to inform you of our intent to fully and permanently restore the East Maui streams jointly identified as priority streams in 2001 by the Water Commission and the Native Hawaiian Legal Corporation on behalf of its East Maui clients. These streams are: Honopou, Hanehoi (Puolua), Waiokamilo, Kualani, Pi'ina'au, Palauhulu, and Wailuanui (East and West).

A&B remains committed to participating fully in the current East Maui interim instream flow standard (IIFS) proceedings in order to address the appropriate restoration of other streams. We also acknowledge the Hearings Officer's Recommendation re Interim Restoration of Stream Flow (the "***Interim Restoration Recommendations***") filed with the Commission on Water Resource Management ("***CWRM***") on April 1, 2016. A filing was made yesterday acknowledging that HC&S agrees in principle with the Interim Restoration Recommendations for stream flow restorations on an interim basis pending a final decision from CWRM on the East Maui IIFS petitions.

We will be meeting with the CWRM staff to ask for their guidance in identifying the most expeditious and cooperative way possible to modify the diversions on these streams, to enable the return of flows to the streams. We would welcome consultation with the East Maui community as well to ensure their input is provided regarding the modification of the diversions.

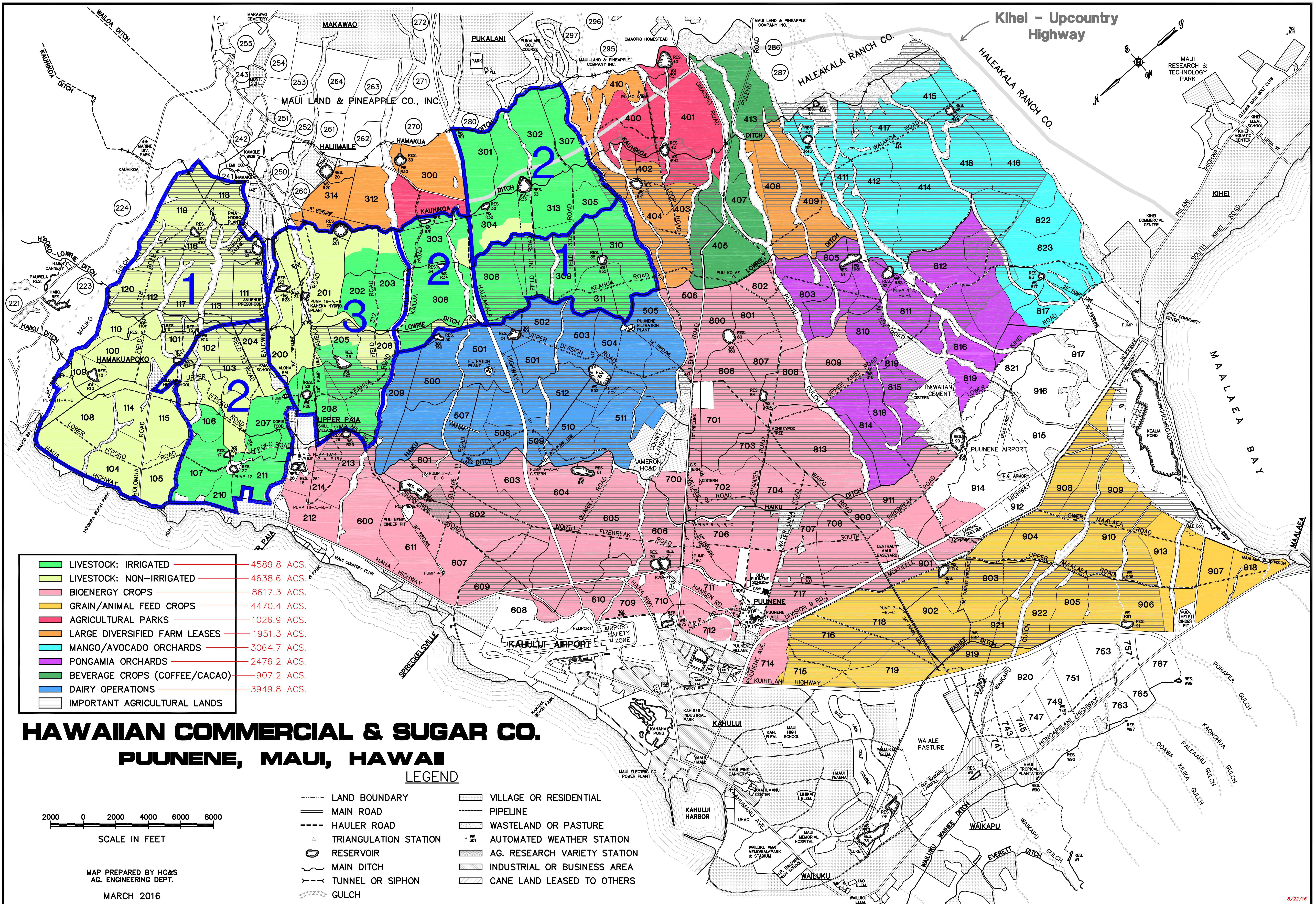
Please do not hesitate to contact me if you have any questions on the above.

Sincerely Yours,

A handwritten signature in black ink, appearing to read "Chris Benjamin", with a long horizontal flourish extending to the right.

Christopher J. Benjamin
President and Chief Executive Officer

cc: Jeff Pearson, CWRM Deputy Director
Dr. Lawrence H. Miike, Hearings Officer
William J. Wynhoff, Esq.
Linda L. W. Chow, Deputy Attorney General
Alan T. Murakami, Esq.
Camille K. Kalama, Esq.
Summer L. H. Sylva, Esq.
Isaac Hall, Esq.
Patrick K. Wong, Esq.
Caleb P. Rowe, Esq.
Kristin K. Tarnstrom, Esq.
Robert H. Thomas, Esq.
Jeffrey C. Paisner
John Blumer-Buell
Nikhilananda



Use	Acres	GPAD Required	Annual Requirement (MG)	% of Total Water Requirement
Pasture - Unirrigated	4,650	-	-	0.0%
Pasture - Irrigated (surface only)	3,440	1,992	2,503	7.7%
Pasture - Irrigated	1,150	1,314	552	1.7%
Dairy - Irrigated	3,950	2,272	3,278	10.0%
Agricultural Park	1,025	2,566	961	2.9%
Diversified Ag (surface only)	1,950	2,630	1,873	5.7%
Orchard Crops (surface only)	2,250	5,279	4,338	13.3%
Orchard Crops (surface only)	815	5,387	1,604	4.9%
Beverage Crops	900	5,096	1,675	5.1%
Pongamia	2,500	4,478	4,089	12.5%
Grain/Animal Feed	-	4,030	-	0.0%
Bioenergy crops	8,620	3,759	11,836	36.2%
	26,600	3,369	32,709	100%

Average Daily Evap
by Month 2010-

month	110	201	208	301	401	414	501	602	711	813	823	906	ARP	KAP
January	0.126827	0.160331	0.1588471	0.13602903	0.140098	0.1447742	0.1496923	0.15392844	0.148214	0.152143	0.159996	0.162594	0.151114	0.143841
February	0.15605	0.185136	0.1863557	0.16106456	0.165616	0.1713874	0.1798622	0.18428297	0.183649	0.189355	0.189248	0.202654	0.184576	0.164591
March	0.174562	0.195044	0.2020252	0.17292645	0.182785	0.1936187	0.1989097	0.20533513	0.200396	0.210738	0.208319	0.219248	0.202715	0.180379
April	0.229943	0.243801	0.2593813	0.22325	0.221343	0.2383993	0.257284	0.25940722	0.255874	0.25934	0.248263	0.278975	0.257016	0.220392
May	0.227481	0.244489	0.2622084	0.22052903	0.214137	0.2272107	0.2564703	0.27501559	0.251732	0.250267	0.248559	0.263366	0.253726	0.20991
June	0.261268	0.287669	0.2918691	0.2615207	0.238412	0.2521205	0.2965392	0.30227813	0.277261	0.297948	0.272332	0.314273	0.282825	0.23404
July	0.273058	0.292961	0.29832	0.25491613	0.239951	0.2536739	0.2939839	0.3066072	0.280201	0.301738	0.265931	0.305402	0.282599	0.232849
August	0.271619	0.284341	0.2944494	0.24808269	0.237781	0.2495449	0.2867836	0.30096681	0.276073	0.288148	0.262087	0.296448	0.27973	0.23385
September	0.251148	0.248199	0.2649532	0.21872417	0.206086	0.2213705	0.2542275	0.26277628	0.247495	0.252019	0.232741	0.273096	0.255657	0.202185
October	0.183965	0.211612	0.2147007	0.18188728	0.176821	0.1886953	0.2032041	0.20780783	0.208646	0.211105	0.197748	0.219592	0.207578	0.181698
November	0.159811	0.178611	0.1775383	0.1596116	0.156587	0.1556921	0.1727128	0.17490835	0.174296	0.174943	0.172216	0.188802	0.169958	0.157211
December	0.13991	0.155707	0.154133	0.13904889	0.137201	0.1404269	0.1523391	0.15636662	0.149421	0.155486	0.152529	0.162174	0.148308	0.142423
Grand Average	0.204637	0.223992	0.2303984	0.19813254	0.193068	0.2030762	0.2251674	0.23435624	0.221105	0.230439	0.218643	0.240552	0.222984	0.193606

Use	p C	irrig type	irrig eff	daily					Annual (in)
				evap (in)	adj evap	GPAD	rain (in)	GPAD	
Pasture - Unirrigate	0	none	0%	0.2046369	0	0	0.1475492	0	0
Pasture - Irrigated (s	1	drip	90%	0.2175076	0.13050457	3543.721	0.0644788	1992.0712	26.7954625
Pasture - Irrigated	1	drip	90%	0.2175076	0.13050457	3543.721	0.0869455	1314.2253	17.6777191
Dairy - Irrigated	1	drip	90%	0.2251674	0.13510043	3668.517	0.0597874	2272.277	30.5645275
Agricultural Park	1	drip	90%	0.1933369	0.125669	3412.416	0.0406193	2566.0447	34.516013
Diversified Ag	1	drip	90%	0.1965833	0.12777918	3469.716	0.0406193	2629.711	35.3723928
Orchard Crops (surf	1	drip	90%	0.2030762	0.2030762	5514.331	0.0281073	5279.0061	71.0082116
Orchard Crops	1	drip	90%	0.2030762	0.2030762	5514.331	0.0245157	5387.3681	72.4657954
Beverage Crops	1	drip	90%	0.1980723	0.20401443	5539.808	0.0351015	5096.2899	68.5504857
Pongamia	1	drip	90%	0.224541	0.17963278	4877.749	0.0312056	4478.2121	60.2366853
Grain/Animal Feed	1	drip	90%	0.2282135	0.17116009	4647.681	0.0375799	4030.2617	54.2112801
Bioenergy crops	1	drip	90%	0.2298871	0.17241531	4681.765	0.0478196	3759.1912	50.5650942

EMI Taro Stream Diversions		
DIVERSIONS BY STREAM	EMI Map #	General Description of Work
Honopou		
Honopou	W-22	Bolt steel plates or concrete over diversion intake grate.
Lupi Long intake	W-22a	Bolt steel plates or concrete over diversion intake grate.
Wailole	W-22b	Bolt steel plates or concrete over diversion intake grate.
Honopou	NH-22	Bolt steel plates or concrete over diversion intake grate.
Wailole	NH-23	Seal intake opening with rocks and concrete.
Honopou long strainer	L-15	Construct stream overpass over ditch.
Honopou siphon	L-16	Construct stream overpass over ditch.
Honopou side ditch	L-17	Close existing control gate.
Honopou	H-8	Bolt steel plates or concrete over diversion intake grate and seal opening below grate with rock and concrete.
Hanehoi (Puolua)		
Hanehoi (Huelo intake)	W-18	Bolt steel plates or concrete over diversion intake grate.
Hanehoi (Huelo intake)	NH-17	Concrete over diversion intake grate.
West Hanehoi intake (Puolua)	NH-17a	Construct stream overpass over ditch.
Hanehoi Huelo # 1	L-5	Bolt steel plates or concrete over diversion intake grate.
Hanehoi Huelo # 2	L-6	Bolt steel plates or concrete over diversion intake grate.
Hanehoi Huelo # 3	L-7	Bolt steel plates or concrete over diversion intake grate.
Hanehoi	L-5a	Construct stream overpass over ditch.
Hanehoi	L-5b	Construct stream overpass over ditch.
Hanehoi	L-5c	Construct stream overpass over ditch.
Hanehoi Roseapple (Puolua)	L-7a	Install pipe or box culvert with wing walls through which ditch can pass beneath stream or construct stream
West Hanehoi	L-7b	Construct stream overpass over ditch.
East Hanehoi (Pancho)	H-3	Bolt steel plates or concrete over diversion intake grate.
West Hanehoi (School)	H-4	Seal intake opening with rock and concrete.
Pi'ina'au		
Piinaau	K-31	Seal intake opening with rocks and concrete.

Hauolo Wahine small intake runoff by gate	K-30d	Construct overpass over ditch.
Piinaau 6" steel and pvc pipe intake	K-31a	Remove steel and pvc pipes.
Palauhulu		
Kano	K-26	Most flow will be restored by removal of sluice gate. Scope of work for full restoration is to be determined. All
Lalahai (# 3 intake - Hauolo Wahine Ditch)	K-27	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.
Lalapipi (# 2 intake - Hauolo Wahine Ditch)	K-28	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.
Kaauau (# 1 intake - Hauolo Wahine Ditch)	K-29	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.
Hauolo Wahine	K-30	Bolt steel plates or concrete over diversion intake grate.
Kaauau diversion tunnel to # 1 intake	K-29a	Seal diversion ditch with rock and concrete.
Hauolo Wahine small diversion	K-30a	Remove pipe.
Hauolo Wahine small intake	K-30b	Remove pipe.
Hauolo Wahine small intake	K-30c	Remove pipe.
Waiokamilo		
Kualani (East Waiokamilo)	K-22	Diversion closed in 2007. Concreted over diversion intake.
Waiokamilo # 11 intake	K-23	Diversion closed in 2007. Blocked water from entering ditch with boards located in tunnel.
Waiokamilo # 12 intake	K-24	Diversion closed in 2007. Concreted over diversion intake.
Waiokamilo Kikokiko intake	K-25	Diversion closed in 2007. Concreted over diversion intake.
Filipino Ditch Diversion	K-21b	No Diversion.
6" Kulani aluminum pipe	K-22a	Diversion closed in 2007. Removed pipe.
Koolau ditch # 10 crosscut intake # 1	K-22b	Diversion closed in 2007. Removed pipe.
Koolau ditch # 10 crosscut intake # 2	K-22c	Diversion closed in 2007. Removed pipe.
Koolau ditch # 10 crosscut intake # 3	K-22d	Diversion closed in 2007. Removed pipe.
Koolau ditch # 10 crosscut intake # 4	K-22e	Diversion closed in 2007. Removed pipe.
Koolau ditch # 10 crosscut intake # 5	K-22f	Diversion closed in 2007. Removed pipe.
Koolau ditch # 10 crosscut intake # 6	K-22g	Diversion closed in 2007. Removed pipe.

4' pvc pipe intake East of # 11 intake	K-23a	Diversion closed in 2007. Removed pipe.
Koolau Ditch # 12 crosscut intake # 1	K-24a	Diversion closed in 2007. Removed pipe.
Koolau Ditch # 12 crosscut intake # 2	K-24b	Diversion closed in 2007. Removed pipe.
Koolau Ditch # 12 crosscut intake # 3	K-24c	Diversion closed in 2007. Removed pipe.
Koolau Ditch # 12 crosscut intake # 4	K-24d	Diversion closed in 2007. Removed pipe.
Koolau Ditch # 12 crosscut intake # 5	K-24e	Diversion closed in 2007. Removed pipe.
Small intake west of main # 12 crosscut	K-24f	Diversion closed in 2007. Removed pipe.
Small intake west of main # 12 crosscut	K-24g	Diversion closed in 2007. Removed pipe.
Small intake west of main # 12 crosscut	K-24h	Diversion closed in 2007. Removed pipe.
Small intake west of main # 12 crosscut	K-24i	Diversion closed in 2007. Removed pipe.
Small intake west of main # 12 crosscut	K-24j	Diversion closed in 2007. Removed pipe.
East Kikokiko 2" pipe intake	K-25a	Diversion closed in 2007. Removed pipe.
Kikokiko small intake	K-25b	Diversion closed in 2007. Removed pipe.
Kikokiko 6" pipe intake mauka of bridge	K-25c	Diversion closed in 2007. Removed pipe.
West Kikokiko 4" pipe intake	K-25d	Diversion closed in 2007. Removed pipe.
West Kikokiko 3" pipe intake	K-25e	Diversion closed in 2007. Removed pipe.
Kikokiko 3" pvc pipe intake under bridge	K-25f	Diversion closed in 2007. Removed pipe.
Wailuanui (East and West)		
East Wailuanui # 6 intake and sluice basin	K-18	Seal intake opening with rocks and concrete.
East Wailuanui # 6 control house intake	K-19	Bolt steel plates or concrete over diversion intake grate.
Wailuanui # 7 intake	K-20	Seal intake opening with rocks and concrete.
West Wailuanui # 9 intake	K-21	Seal intake opening with rocks and concrete.
3" aluminum pipe intake by # 6 control house intake	K-19a	Remove pipe.
Wailuanui stream intake # 8 intake pipe	K-20a	Remove pipe
8" steel pipe intake East of # 9 intake	K-21a	Remove pipe

Total diversions = 69 (Not including Filipino Ditch Diversion) - 28 Waiokamilo diversions that were closed in 2007 = 41



Minor diversions registered with CWRM in 1989

Phase I Projects			
Stream Diversion	EMI Map #	General Description of Work Plan	Timetable to Complete Project
Lowrie Honopou side ditch	L-17	Close existing control gate.	5 to 7 months after obtaining all required approvals and completing any required consultations
Haiku East Hanehoi (Pancho)	H-3	Bolt steel plates or concrete over diversion intake grate.	
Haiku West Hanehoi (School)	H-4	Seal intake opening with rock and concrete.	
Lowrie Hanehoi Huelo # 1	L-5	Bolt steel plates or concrete over diversion intake grate.	
Koolau Kano	K-26	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.	
Lowrie Hanehoi Huelo # 2	L-6	Bolt steel plates or concrete over diversion intake grate.	
Lowrie Hanehoi Huelo # 3	L-7	Bolt steel plates or concrete over diversion intake grate.	
Koolau Lalahai (# 3 intake - Hauolo Wahine Ditch)	K-27	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.	
Koolau Lalapipi (# 2 intake - Hauolo Wahine Ditch)	K-28	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.	
Kaauau (# 1 intake - Hauolo Wahine Ditch)	K-29	Scope of work for full restoration is to be determined. All work is anticipated to be restricted to tunnel.	
Hauolo Wahine	K-30	Bolt steel plates or concrete over diversion intake grate.	
Kaauau diversion tunnel to # 1 intake	K-29a	Seal diversion ditch with rock and concrete.	
Hauolo Wahine small diversion	K-30a	Remove pipe.	
Hauolo Wahine small intake	K-30b	Remove pipe.	
Hauolo Wahine small intake	K-30c	Remove pipe.	

Phase II Projects			
Stream Diversion	EMI Map #	General Description of Work Plan	Timetable to Complete Project
New Hamakua Hanehoi (Huelo intake)	NH-17	Bolt steel plates or concrete over diversion intake grate.	2 to 3 months after obtaining all required approvals
Koolau East Wailuanui # 6 intake and sluice basin	K-18	Seal intake opening with rocks and concrete.	
Koolau West Wailuanui # 9 intake	K-21	Seal intake opening with rocks and concrete.	
Koolau East Wailuanui # 6 control house intake	K-19	Bolt steel plates or concrete over diversion intake grate.	

Koolau Wailuanui # 7 intake	K-20	Seal intake opening with rocks and concrete.	and completing any required consultations
3" aluminum pipe intake by # 6 control house intake	K-19a	Remove pipe.	
Wailuanui stream intake # 8 intake pipe	K-20a	Remove pipe	
8" steel pipe intake East of # 9 intake	K-21a	Remove pipe	

Phase III Projects			
Stream Diversion	EMI Map #	General Description of Work Plan	Timetable to Complete Project
Wailoa Honopou	W-22	Bolt steel plates or concrete over diversion intake grate.	4 to 5 months after obtaining all required approvals and completing any required consultations
New Hamakua Honopou	NH-22	Bolt steel plates or concrete over diversion intake grate.	
Haiku Honopou	H-8	Bolt steel plates or concrete over diversion intake grate and seal opening below grate with rock and concrete.	
Wailoa Hanehoi (Huelo intake)	W-18	Bolt steel plates or concrete over diversion intake grate.	
Koolau Piinaau	K-31	Seal intake opening with rocks and concrete.	
Wailoa Lupi Long intake	W-22a	Bolt steel plates or concrete over diversion intake grate.	
Wailoa Wailole	W-22b	Bolt steel plates or concrete over diversion intake grate.	
Koolau Hauolo Wahine small intake runoff by gate	K-30d	Construct overpass over ditch.	
Koolau Piinaau 6" steel and pvc pipe intake	K-31a	Remove steel and pvc pipes.	
New Hamakua Wailole	NH-23	Seal intake opening with rocks and concrete.	

Phase IV Projects			
Stream Diversion	EMI Map #	General Description of Work Plan	Timetable to Complete Project
New Hamakua West Hanehoi intake (Puolua)	NH-17a	Construct stream overpass over ditch.	17 to 23 months after obtaining all required approvals and completing any required consultations
Lowrie Hanehoi Roseapple (Puolua)	L-7a	Install pipe or box culvert with wing walls through which ditch can pass beneath stream or construct stream	
Lowrie West Hanehoi	L-7b	Construct stream overpass over ditch.	
Lowrie Hanehoi	L-5a	Construct stream overpass over ditch.	
Lowrie Hanehoi	L-5b	Construct stream overpass over ditch.	
Lowrie Hanehoi	L-5c	Construct stream overpass over ditch.	
Lowrie Honopou long strainer	L-15	Construct stream overpass over ditch.	
Lowrie Honopou siphon	L-16	Construct stream overpass over ditch.	

	Major diversions registered with CWRM in 1989
	Minor diversions registered with CWRM in 1989

COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII

PETITION TO AMEND INTERIM
INSTREAM FLOW STANDARDS FOR
HONOPOU, HUELO (PUOLUA),
HANEHOI, WAIKAMOI, ALO,
WAHINEPEE, PUOHOKAMOA,
HAIPUAENA, PUNALAU/KOLEA,
HONOMANU, NUAAILUA, PIINAAU,
PALAUHULU, OHIA (WAIANU),
WAIOKAMILO, KUALANI, WAILUANUI,
WEST WAILUAIKI, EAST WAILUAIKI,
KOPILIULA, PUAKEA, WAIOHUE,
PAAKEA, WAIAAKA, KAPAUULA,
HANAWI, AND MAKAPIPI STREAMS

Case No. CCH-MA13-01

CERTIFICATE OF SERVICE

CERTIFICATE OF SERVICE

The undersigned hereby certifies that, on this date, a true and correct copy of the foregoing document was duly served on the following parties as stated below:

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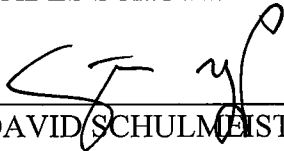
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