

# ***Recycled Water: CWRM's Role***

***2<sup>nd</sup> Annual Joint Government Water Conference***

***Quantity + Quality = Sustainability***

***August 2014***



Presented by: Neal Fujii, Drought and Water Conservation Coordinator  
Hawaii Department of Land and Natural Resources  
Commission on Water Resource Management



# *Overview*

- **Commission Role in recycled water**
- **Bureau of Reclamation**
- **Current issues / initiatives**



## ***Commission Role in Recycled Water***

- **State Water Code authorizes Commission to study means and methods to augment water resources**
- **Commission can cooperate with other agencies and organizations and conduct studies**
- **Department of Health assumes water quality regulatory role**
- **Planning, facilitative, and advisory role**





Study Element 2:  
**An Appraisal of Stormwater  
 Reclamation and Reuse  
 Opportunities In the  
 Ewa Plain of Oahu**



FINAL REPORT SEPTEMBER 2012

2013 Update of the Hawaii  
 Water Reuse Survey and Report



Prepared For  
 Department of Land and Natural Resources  
 Commission on Water Resource Management

JULY 2013



**THE LIMTIACO CONSULTING GROUP**  
 CIVIL ENGINEERING AND ENVIRONMENTAL CONSULTANTS

**FINAL**  
 Central Oahu Non-Potable Water Master Plan –  
 Appraisal of Opportunities Report

Prepared for  
 Commission on Water Resource Management  
 January 16, 2013



**Brown  
 and  
 Caldwell**

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# ***Bureau of Reclamation***

- **Authorized to work in Hawaii under Title XVI of P.L. 102-575, as amended**
- **Kealakehe Wetland design**
- **Hawaii stormwater reclamation and reuse appraisal study**
- **Congress authorized 3 Title XVI projects in Hawaii (43 USC 390h-20):**
  - **Kalaeloa, Honolulu (desal)**
  - **Kealakehe, Hawaii (recycled)**
  - **Lahaina, Maui (recycled)**
- **Federal process: appraisal, feasibility, design/construct**
- **Competitive grant process**



## *Current Issues*

- **Pharmaceuticals, personal care products and other unregulated contaminants in recycled water**
- **Application of recycled water over a potable aquifer**
- **Injection well disposal impacts (e.g. brine, wastewater)**
- **Impacts to traditional and customary practices**



# Recent Initiatives



- DOH updating recycled water guidelines
- SBCC adopting 2012 UPC
- Planned UH/HDOA in situ study to investigate effects of using recycled water for crop irrigation (Kunia)
- BWS/USGS groundwater sampling for unregulated contaminants
- DOH groundwater sampling for unregulated contaminants





Questions?