

Hawaii State Department of Health  
Clean Water Branch- Polluted Runoff Control Program

Quarterly Status Reporting Form  
Clean Water Act 319(h) NPS Implementation Program

Quarterly Status Reports are required per contract terms. If no work was done during the reporting period, the CONTRACTOR must provide an explanation of the circumstances.

This Quarterly Status Report is for the period indicated below **(check only one and insert year)**:

- |   |                                 |
|---|---------------------------------|
| <input type="checkbox"/> January 1 – March 31             | (Due April 15 <sup>th</sup> )   |
| <input type="checkbox"/> April 1 – June 30, 2017          | (Due July 15 <sup>th</sup> )    |
| <input checked="" type="checkbox"/> July 1 – September 30 | (Due October 15 <sup>th</sup> ) |
| <input type="checkbox"/> October 1 – December 31          | (Due January 15 <sup>th</sup> ) |

Project Title: *Replacing Small Capacity Cesspools with Advanced Wastewater Systems in Hanalei Bay Watershed (ASO Log 16-103)*

Project Start/Completion Date: *April 2016 – April 2019*

Estimated % of Project Completed: 18%

Estimated % of Grant Funds Previously Requested: 9.4%

Quarterly Status Report Number: 6

Name, telephone number, and e-mail of person to be contacted for questions regarding this report:  
*Makaala Kaaumoana, 808-826-1985, kaaumoana@gmail.com*

Please provide the following information for this reporting period. Additional sheets may be attached:

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**1. Progress/tasks started and/or completed as defined in the Contract’s Scope of Services during current reporting period:**

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**A. Summary of work completed (list all tasks and deliverables)**

**Project Timeline**

Activity	Due Date	Date Completed
Project Start	4/15/16	5/1/16
Begin Project Management	5/15/16	5/1/16
Begin assessment and design	5/15/16	
Begin engaging property owners	5/15/16	5/1/16
Complete project management	6/15/16	
Draft and release press release #1	6/15/16	11/15/16
Host Public Stakeholder Meeting #1	6/15/16	
Submit the draft monitoring plan	7/15/16	10/14/16

Activity	Due Date	Date Completed
Submit the draft QAPP	7/15/16	1/17/17
Submit the draft outreach and education plan	7/15/16	7/15/16
Submit the final monitoring plan	9/15/16	1/17/17
Submit the final QAPP	9/15/16	
Submit the final outreach and education plan	9/15/16	7/15/16
Begin water quality monitoring	10/15/16	
Begin load reduction analysis	10/15/16	
Complete assessment	10/15/16	
Begin site plans	10/15/16	
Complete site plans	3/15/17	
Complete design	4/15/17	
Complete engaging property owners	4/15/17	
Submit progress report	4/15/17	
Meet with State to discuss progress report	4/15/17	
Begin installation	4/15/17	
Complete installation	10/15/18	
Host Public Stakeholder Meeting #2	11/15/18	
Draft and release press release #2	12/15/18	
Complete water quality monitoring	2/15/19	
Complete load reduction analysis	2/15/19	
Submit the draft Final Report	2/15/19	
Submit the Final Report	4/15/19	

## B. GRTS Load Reductions

No data at this time. Details will be included in subsequent QSRs.

	Estimated Load Reduction
Nitrogen (lbs/yr)	
Phosphorus (lbs/yr)	
Sediment (tons/yr)	

## C. Narrative Progress Report

### Personnel

No change in personnel at this time.

### Monitoring Plan and Activities

Monitoring will begin when two eligible and participating properties are identified. The Draft QAPP preparation is delayed due to required changes in the type of monitoring equipment to be used. In addition, the lab that was to be used to run the samples has closed their Hawaii based office. Inquiries are being made with Kauai based labs to check on their cost and capability to conduct the sample analysis. The type of piezometers originally intended for use are not compatible with the sonde to be used to measure various water quality parameters. The QAPP will be completed once all the equipment and logistics are finalized.

## **BMP Installation**

Four quotes were issued for installation of WaiponoPure ATU systems (two owner-occupied, two TVR). Two of these potential clients were given a discount based on discussions with the manufacturer and agreement that a sign could be placed at the residences to inform Hanalei community members of the type of system installed, to include its environmental benefits. During this reporting period, all have declined based on the cost to upgrade. Even with the funds provided by the grants, the system costs are expensive and at present there are no regulatory drivers requiring closure of small capacity cesspools. Potential buyers are also concerned about the on-going costs of operating the systems (see Section 3 below). Discussions continued between SRGII and the manufacturer of the BMP regarding unit cost. The objective of the conversations are in part to negotiate reduced sale price of the unit in order to generate participation in the project. The manufacturer agreed to provide a discounted price for the unit cost to an additional two clients (for a total of three).

HWH continues to explore potential third party funding sources to assist with project costs to property owners. WaiponoPure received notice that they were not selected for an Elemental Excelsior grant. WaiponoPure is pursuing other options (grants, local manufacturing) to reduce costs of the units and on-going maintenance. However, there is no committed timeline for price reductions. HWH is pursuing potential funding support from Hanalei based businesses, especially those in real estate, and community philanthropies. SRGII will be meeting several individuals to explore private funding to match the cost of system upgrades.

SRGII has also been comparing the costs and performance of other types of units to see if a cheaper system can meet the specifications called for by the project. Our preliminary finding is that the Waipono Pure produces high quality effluent and the unit cost is comparable to other manufacturer's units.

## **Education and Outreach**

Education and outreach is on-going including publication of an approved press release on the program and regular program descriptions in the media. A descriptive poster of the program is posted on the HWH web site and displayed on a community bulletin board. Outreach materials have been used at local events and presentations. Additional outreach and education efforts included:

- Monthly public radio announcements on KKCR: July 10, August 14 and Sept. 11, 2017. These announcements are including the potential for losing the funding.
- Produced and conducted a door to door household survey in Hanalei which included query on concerns about water quality and the connection to wastewater and solicited interest in cesspool replacement. Information was provided to each respondent on how to receive more information.
- Individual communication with leadership of the Hanalei to Ha'ena Community Association is ongoing. Efforts are underway to communicate directly with households with "capacity" to afford the units and have not been contacted about the program.
- Regular/on-going updates to the Information and Outreach Committee of the Hawaii State Environmental Council
- Outreach to the DEBT ORMP on the project, August, 2017.
- Presentation to the LIMU Coalition BOD, August, 2017.
- Presentation on the project with emphasis on the water quality implications for humpback whale habitat to the Hawaiian Islands Humpback Whale National Marine Sanctuary Advisory Council in Maui, August, 2017.
- Presentation on project to Waterkeeper Alliance, Hawaii, August 23, 2017.
- Met with OHA Kauai trustee to explain project and solicit support, August 31, 2017.
- Presented project to Kauai County Council candidate, August 31, 2017.

- Met with DOH staff in Hanalei September 13, 2017 to discuss project status. Provided briefing paper.
- Presented project and challenges to Hawaii House representative Nadine Nakamura, September 13, 2017. She is arranging a follow up meeting to discuss potential financial support for project.
- Presented project to Hawaii State House Representatives Finance Committee at Waipa, September 20, 2017.
- Met with Garden Island News staff for article on project, September 23-24, 2017.
- Responding to inquiries in public, at the office and by phone
- Follow up to land owners who have expressed interest in the system

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**2. Description of any major issues/problems encountered and/or resolved that may affect the Contractor's ability to complete the project as required.**

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As stated above it has been a challenge to secure property owners to participate in the project. While most property owners engaged recognize the adverse impacts cesspool leachate has on the receiving waters, they are reluctant to spend money to upgrade their cesspools.

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**3. Description of any significant findings, results, or conclusions. If none, please indicate.**

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There have not been any significant findings, results or conclusions. However, a recurring issue when speaking with potential clients is the revolving cost of entering into an annual service agreement between the owner and a service provider. Pursuant to HRS CH 11-62 the HDOH Waste Water Branch requires ATU owners to have a service contract. For most candidates who have been conditioned to paying little or no money for their waste disposal, the revolving service fee and ongoing electrical costs on top of the system upgrade cost is a challenge.

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**4. Based on the Scope of Services, a description of tasks expected to be completed in the next reporting period.**

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**Monitoring Plan and Activities**

Draft QAPP will be submitted. Final QAPP will be submitted after review and comment by the Department of Health.

**BMP Installation**

Contacts with prospective clients will result in at least two potential agreements to install the ATU.

**Education and Outreach**

A house to house survey was conducted in Hanalei in July that includes a query about water quality, home ownership and wastewater. A handout was left with responders that describes the cesspool replacement program. 26% of responders reported they were concerned about the water quality in Hanalei River and Bay. 0% have contacted HWH for more information on project.

Outreach will continue on media, at community events, to community leaders and elected officials.

A meeting is being facilitated by Rep. Nakamura to discuss financial options for project.

A meeting with potential community philanthropists is being arranged. Options include establishing a "community fund" to provide "match" for the federal funds to replace cesspools.