

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**):

- January 1 – March 31, _____ (Due April 15th)
- April 1- June 30, _____ (Due July 15th)
- July 1 – September 30, _____ (Due October 15th)
- October 1 – December 31, 2017 (Due January 15th)

Project Title: **Watershed Implementation Project for the Ahupua'a of Waipā**

Project Start/Completion Date: **2/22/2016 - 8/22/2018**

Estimated % of Project Completed: **50 %**

Estimated % of Grant Funds Previously Requested: **53 %**

Quarterly Status Report Number: **8**

Name, telephone number, and e-mail of person to be contacted for questions regarding this report: **Matt Rosener, (808) 639 2640, laminarmatt@gmail.com**

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

1. Progress/tasks started and/or completed as defined in the Contract's Scope of Services during **current** reporting period.
 - A. Summary of work completed (list all tasks and deliverables)

Task/Deliverable	Due Date	Date Task Completed/ Deliverable Submitted
Commence Cesspool Replacement BMP	3/22/2016	3/22/2016
Submit Project Monitoring Plan	5/22/2016	12/12/2016

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Submit QAPP	5/22/2016	12/12/2016
Commence Education & Outreach Program	6/22/2016	6/22/2016
Commence Taro Lo'i Management BMPs	6/22/2016	10/1/2016
Commence Project Monitoring	6/22/2016	4/1/2017
Complete Livestock Fencing & Watering BMP Installation	8/22/2016	8/10/2017
Complete Constructed Wetland BMP Installation	10/22/2016	8/26/2017
Commence Feral Ungulate Removal Program BMP	11/22/2016	8/1/2017
Commence Upland Erosion Control & Revegetation BMP	11/22/2016	7/21/2017
Press Release # 1	n/a	8/25/2017
Feral Ungulate Removal Remote-controlled Trap Installed	n/a	12/30/2017

B. GRTS Load Reductions

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

C. Narrative Progress Report

August 2017 marked the formal start of the Feral Ungulate Removal Program BMP. While Waipa staff have hunted feral pigs from the ahupua'a for years, we have just started a program to remove pigs strategically while recording data on pigs removed. Photopoints were established in August 2017 in wallow areas where pigs are thought to congregate (judging by the amount of soil disturbance).



These photopoints will be documented repeatedly throughout the remaining project period as a means to assess effectiveness of the Feral Ungulate

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Removal Program BMP. So far, pigs are being removed by traditional hunting methods as well as snares on animal trails. An automated pig trap, using the Jager Pro M.I.N.E. gate system, was purchased and installed in December 2017. It is hoped that this trap can be used to catch multiple pigs at one time. Waipa staff continue to consult with staff from The Nature Conservancy of Hawaii about the Waipa Feral Ungulate Removal Program BMP. A few volunteers have been recruited to assist with the program which will be coordinated by Waipa staff. One KUPU intern with a strong hunting/trapping background will be working on the program during his internship period (Oct. 2017 – Aug. 2018) and possibly beyond. The hunting/trapping program is proposed to be extended through the Contract Modification now being considered.

As described in the previous QSR, the Constructed Wetland BMP was “installed” on August 26, 2017, during a regularly-scheduled Community Volunteer Workday. Several volunteers helped out-plant several hundred wetland plants within the basin, and the new Constructed Wetland went online immediately, receiving flow from the taro patch above it. Monthly water quality monitoring and chemistry sampling at the Constructed Wetland inlet and outlet locations will produce data to assess the effectiveness of this BMP to reduce nutrient and turbidity levels as taro lo’i effluent passes through the basin. This monitoring began almost immediately after the

Constructed Wetland went online. Water chemistry samples have been received by the DOH lab, but no data from these samples has been made available yet to assess the BMP’s effectiveness. We hope to be able to provide at least preliminary water quality results at the end of the next



reporting period. The Constructed Wetland appears to be working, at least visually it seems effluent from the taro patch is being filtered by vegetation in the wetland basin, but the water quality data will inform us more than visual observations can. Maintenance of this BMP is ongoing. A recent photo of the Constructed Wetland BMP is included as an inset photo here.

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Work on the Stream Restoration BMP continued during this reporting period with project staff removing invasive vegetation, spreading mulch, and out-planting native vegetation in several small riparian area plots along Waipā Stream. Several staff workdays occurred during the reporting period in the stream project area, during which project staff and interns completed regular maintenance work in addition to out-planting. A recent

photo of the Stream Restoration Project area is included here for your enjoyment.

The water quality monitoring program for the project is now well-established and weekly water quality monitoring runs are being performed by Waipa staff. Water samples are being collected from several sites on a bi-weekly basis for FIB and approximately monthly for water chemistry. These samples are being transferred from project staff to DOH staff for analyses at DOH lab facilities. We are coordinating with DOH staff on Kauai on a regular basis to facilitate transfer of water samples and sampling supplies. Continuous water quality monitoring at the Waipa Stream Gage and Waipa Estuary gage has been ongoing since March 2017. The continuous monitoring has gone relatively smoothly but one digital turbidity sensor did fail and needed to be replaced. If the Contract Modification is approved, some of the additional funds available will be used to repair and replace water quality monitoring equipment, as needed.

2. Description of any major issues/problems encountered and/or resolved that may affect the CONTRACTOR's ability to complete the project as required (i.e., weather, personnel, equipment, etc.). If there is a change in the project timeline or budget, provide an explanation, revised timeline, budget, and completion schedule. (Please note that no-cost extensions must be applied for through the Department, and will only be granted when the CONTRACTOR has demonstrated unforeseeable setbacks.)

Although the project NTP is dated 2/22/2016, we did not actually receive the executed contract and NTP until 3/21/2016. This may set the project schedule back by approximately 1 month. Delays in developing the project Monitoring Plan (MP) and Quality Assurance Project Plan (QAPP) have also set back the schedule significantly. While monitoring for the project officially started in April 2017 and we have been coordinating monitoring with DOH staff since then, we have still not received formal approval of the MP or QAPP.

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A request for Contract Modification was submitted in December 2017 to adjust the project scope, budget, and schedule. It was proposed to increase the scope of work to expand on existing BMPs being implemented and installed under the current scope of work. Several opportunities for additional cesspool replacements in the Waipa, Waioli, and Waikoko watersheds have been identified through the project so far, and these will be included in the scope of work if the Contract Modification is approved. Additional work on the Feral Ungulate Removal and Stream Restoration BMPs were also proposed, along with associated maintenance of recently-installed BMPs. We expect to work through the Contract Modification with DOH during the next reporting period.

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

No significant findings, results, or conclusions during this reporting period.

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

During the next reporting period (1/1/18 – 3/31/18), we expect to continue work on ongoing BMPs such as Stream Restoration, Taro Lo'i Management, the Constructed Wetland, and the Feral Ungulate Removal Program. Planning for the Upland Erosion Control and Revegetation BMP has begun, and during the next reporting period some preparation work for this BMP may be undertaken if weather allows.

One focus area for project work in the next reporting period is expected to be maintenance of the Constructed Wetland BMP which will require occasional hand-weeding for the first six months of operation. This BMP was installed in late-August 2017. At 6 months from installation (around March 1, 2018), maintenance for the out-planted basin will stop and volunteer vegetation (i.e. weeds) will be allowed to grow in. The BMP will be monitored for an additional six months to determine if the out-plantings of native wetland plants are more effective than the dominant weeds of the area at reducing nutrient concentrations and/or turbidity levels in this type of BMP.

The Contract Modification previously described is also expected to be executed during the next reporting period. This would change the project scope, schedule, and budget amounts.

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Summary of expenditures and in-kind contributions previously requested in comparison with the Contract's project budget and remaining funds. The summary must be actual cumulative amounts for each line item (i.e., personnel services, travel, operating expenses, equipment acquisition, construction materials, other, etc.) current as of this quarterly status report. Please see the example on Page 4 if necessary.

Summary- Grant Funds					
No.	Description	Original Contract Amounts	Contract Amount from Previous Quarterly Invoices	Amount Requested in this Invoice	Remaining Contract Amount
A.	Personnel Services	\$125,651.00	\$21,857.29	\$3,574.03	\$100,219.68
B.	Travel	\$2,370.00	\$1,451.75	\$0.00	\$918.25
C.	Operating Expenses	\$22,800.00	\$15,257.73	\$67.60	\$7,474.67
D.	Equipment	\$4,500.00	\$0.00	\$0.00	\$4,500.00
E.	Professional Services	\$141,920.00	\$133,150.00	\$0.00	\$8,770.00
F.	Materials & Supplies	\$73,300.00	\$33,987.27	\$6,219.29	\$33,093.44
G.	Other Miscellaneous Expenses	\$15,750.00	\$104.17	\$0.00	\$15,645.83
Total:		\$386,291.00	\$205,808.21	\$9,860.92	\$170,621.87

Summary- Matching Funds					
No.	Description	Original Contribution Amounts	Contribution Amount from Previous Quarterly Invoices	Contributions Submitted in this Invoice	Remaining Contribution Amount
A.	Personnel Services	\$47,366.00	\$32,053.53	\$0.00	\$15,312.47
B.	Travel	\$0.00	\$0.00	\$0.00	\$0.00
C.	Operating Expenses	\$0.00	\$0.00	\$0.00	\$0.00
D.	Equipment	\$10,825.00	\$10,435.00	\$0.00	\$390.00
E.	Professional Services	\$26,600.00	\$17,717.61	\$0.00	\$8,882.39
F.	Materials & Supplies	\$27,000.00	\$9,039.00	\$0.00	\$17,961.00
G.	Other Miscellaneous Expenses	\$0.00	\$0.00	\$0.00	\$0.00
Total:		\$111,791.00	\$69,245.14	\$0.00	\$42,545.86

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