

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, 2018 (Due July 15th)
 July 1 – September 30, _____ (Due October 15th)
 October 1 – December 31, _____ (Due January 15th)

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

Project Start/Completion Date: **2/22/2016 - 8/22/2019**

Estimated % of Project Completed: **60 %**

Estimated % of Grant Funds Previously Requested: **59 %**

Quarterly Status Report Number: **10**

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

After much wetter-than-average months of February and March that created muddy conditions at Waipā, the project area was hit by an unprecedented storm during 14-15 April 2018 that caused extensive damage throughout the north shore of Kaua'i. A rain gage at Waipā collected over 54" of rain during this storm, and the peak 24-hour rainfall total (49.69") is now being certified by the National Weather Service as a new national record. The storm has caused immense damage in the Hanalei area, including Waipā, and the ensuing storm repairs have resulted in significant hardship for people who live and work on the north shore of Kaua'i. A roadblock/convoy system is being implemented for vehicle travel along the only highway in the area which has resulted in several important programs at Waipā being suspended. This has limited staffing and normal activities at Waipā during the reporting period (and continuing through the summer of 2018).

In the aftermath of the April storm event, project activities were put on the backburner as project staff were focused on storm response at Waipā and

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throughout the north shore communities. Along Waipā Stream within the restoration project area, storm damage included some bank erosion and extensive deposition of sediment and organic debris. In addition, many outplantings were lost to the flood, including many well-established, large trees. Some of these trees were completely washed out or knocked over by the floodwaters, and others slowly died after being buried in 1-2 feet of fine sediment (silt and sand). A section of the main stream became plugged with downed trees and other organic debris during the flood which caused backwater to find other pathways downstream, including through floodplain areas that had received restoration treatments in the past.

Several stream site workdays occurred in the months following the flood event to address the storm damage. These included project staff workdays, Community Volunteer Workdays in May and June, and service work groups hosted by Waipā. Since the damaged area was very muddy with soft ground conditions, machine work was not possible during this period, and hand labor was the only way to remove deposited flood debris. Over 300 feet of previously-treated streambanks required re-treatment with erosion control fabrics and new outplantings after the floodwaters stripped them bare. This was completed during June 2018 with significant assistance from a Hawaii Youth Conservation Corps crew. Much of the flood clean-up work at the stream restoration project site was completed during this reporting period, but some larger debris will still need to be addressed later when conditions dry up enough for machines to access the site again.

The flood also caused significant damage to some of the monitoring stations at Waipā which required extensive repairs to equipment and re-installation of stations along the streambanks of Waipā Stream. Before the flood, Kamehameha Schools had installed and was operating two water quality monitoring stations at Waipā, one along Waipā Stream and one along Waioli Stream. Both of these were destroyed by the flood, and only the Waipā Stream station has been replaced so far. The Waipā Foundation operates two more monitoring stations along Waipā Stream for this project at the Stream Gage and Estuary Gage sites. The Stream Gage station was badly damaged when the entire bank where the station is located collapsed into the stream channel. We were fortunate to retrieve the monitoring equipment after the flood, but repairs were needed both to the water quality sonde and to rebuild the stilling well (housing) in the stream channel. Luckily, the Estuary Gage station was not damaged during the flood event.

The reef monitoring program was also impacted by the April flood. Plans for June reef surveys had to be postponed due to the continued turbid water conditions in Hanalei Bay. Project staff plan to perform surveys on the Waipā reef in July with DLNR-DAR staff if conditions allow.

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With project site conditions generally very wet and muddy during the reporting period, work completed was focused on addressing flood damage. However, some new data was acquired for the Cesspool Replacement BMP by performing soil percolation tests and making groundwater level measurements at the septic upgrade sites. The wet weather created good conditions for these measurements to determine design criteria for replacement systems.

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.)

See attached Damage Report for April 2018 Flood. This extreme weather event has caused significant damage to some project sites, but relative to other areas around Kauai's north shore, Waipā generally fared OK. A no-cost extension has been requested for the project to allow more time to address setbacks related to the flood event. A revised project schedule is being developed now.

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.

Since much of the work completed during this reporting period was in response to the April 2018 flood event, not much of the work that had been planned for this period has happened yet. Field conditions have remained exceptionally wet and muddy through the summer of 2018, and some BMP implementation must be delayed until we experience a prolonged dry period to make field conditions suitable for the work. This includes work that was planned for this reporting period (e.g. Implementation of Upland Erosion Control & Reforestation treatments on approximately 0.5 acre, Installation of one septic system for the Cesspool Replacement BMP).

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Given the unknown timeline for the return of suitable field conditions in the project area, planned work for the next reporting period will focus on the following:

- **Continued maintenance of BMP sites, including debris removal and clean-up activities at the Stream Restoration Project site**
- **Continued operation of the Feral Ungulate Removal and Taro Lo'i Management BMPs**
- **Continued monitoring for Water Quality, Stream Health Bioassessment, Reef Survey, and Photopoint monitoring programs**
- **Completion and execution of a Contract Modification agreement to lengthen the project timeline**

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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	\$33,892.08	\$7,328.29	\$84,430.63
B.	Travel	\$2,370.00	\$1,814.54	\$251.95	\$303.51
C.	Operating Expenses	\$22,800.00	\$15,413.93	\$4,116.36	\$3,269.71
D.	Equipment	\$4,500.00	\$0.00	\$408.54	\$4,091.46
E.	Professional Services	\$141,920.00	\$133,150.00	\$15,111.20	(\$6,341.20)
F.	Materials & Supplies	\$73,300.00	\$44,669.40	\$3,562.67	\$25,067.93
G.	Other Miscellaneous Expenses	\$15,750.00	\$104.17	\$6,979.17	\$8,666.66
Total:		\$386,291.00	\$229,044.12	\$37,758.18	\$119,488.70

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	\$41,360.73	\$11,988.56	-\$5,983.29
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	\$11,950.00	\$0.00	\$0.00
E.	Professional Services	\$26,600.00	\$17,717.61	\$0.00	\$8,882.39
F.	Materials & Supplies	\$27,000.00	\$11,799.74	\$1,296.00	\$13,904.26
G.	Other Miscellaneous Expenses	\$0.00	\$0.00	\$0.00	\$0.00
Total:		\$111,791.00	\$82,828.08	\$13,284.56	\$16,803.36

Exhibit “C”