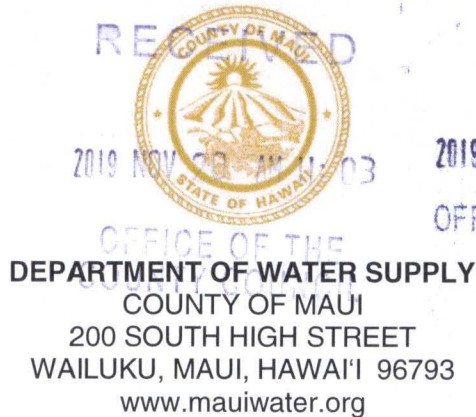


MICHAEL P. VICTORINO
Mayor

JEFFREY T. PEARSON, P.E.
Director

HELENE KAU
Deputy Director



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OFFICE OF THE MAYOR

November 18, 2019

APPROVED FOR TRANSMITTAL

Honorable Michael P. Victorino
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

Michael P Victorino 11/30/19
Mayor Date

For Transmittal to:

Honorable Alice Lee, Chair
Water and Infrastructure Committee
Maui County Council
200 South High Street
Wailuku, Hawaii 96793

Dear Chair Lee:

**SUBJECT: WATERSHED PROTECTION GRANTS PROGRAM
FISCAL YEAR 2019-2020 MONITORING AND EVALUATION DETAILS**

Pursuant to Section 3.36.120(B) Maui County Code, please find attached detailed answers regarding the monitoring and evaluation of DWS grantees of the above subject grants program. Answered are the specific questions that were asked by Committee Chair, Lee, and other Council Members during the November 4, 2019 Water and Infrastructure Committee Meeting as follows:

Request 1: How do grantees work with volunteers, hunters, cultural practitioners, and reach out to the general public?

Response: The Watershed Partners are keen to expose the public to what they do and the importance of understanding watershed protection. As in many other locations, public access can be difficult due to its remote location within state or private lands. Protected areas often lack identifiable signs, paths and contain dangerous or non-traversable gulches with very steep terrain and foul weather. Hiking by foot is extremely hazardous. Access into many areas is best with a helicopter or a capable 4X4 truck, or a smaller specially equipped utility vehicle (UTV). The added detection of a commonly known disease called rapid oh'i'a death (ROD) and how it is spread also worries conservationists. A strict access protocol is currently being developed to contain ROD from spreading by humans.

"By Water All Things Find Life"

Due to the several constraints mentioned above, it is not common practice or cost-effective to keep fenced conservation areas open to programmatic public hunts. Additionally, limited resources and the liability to DWS grantees and the state can outweigh the benefit, especially after years of effective ungulate control that leaves most fenced areas with very limited pig activity. These areas are unlikely to be fruitful enough for subsistence hunting. On the other hand, grantees encourage hunting outside project fence lines where heavy ungulate activity still occurs to alleviate re-incursion pressure from pigs. These areas are usually easier to access and much more suitable for subsistence hunting. With the proper hunting permits and entry permission from the state or private land owners, respectively, hunters can access them.

Grantees are widely aware of Native Hawaiian rights to access land for cultural purposes. Although a formal process is not established, special arrangements for accessing specific sites can be made by contacting watershed protection grantees here: <https://waterresources.mauicounty.gov/31/Watershed-Protection>. Grantees can provide information on how to access conservation areas that may contain protected, highly endangered, or culturally significant plant species. Grantees also prefer to address access requests through their public outreach and education efforts. For example, the public can volunteer to help plant native species and control invasive weeds or take part in community nature hikes to understand what is needed to protect the watersheds before any plant collection is made. Most grantees are long-time watershed protection stewards who possess conservation easements. Nonetheless, it is common practice to contact the land owner for additional access needs. Practitioners wishing to access state forest reserve land will have to contact the State Department of Land and Natural Resources (DLNR) or the State Division of Forestry and Wildlife (DOFAW) for access into state land that grantees are not at liberty to grant access into for collection purposes.

Request 2: Is there a monitoring table that breaks down appropriations, responsibilities and grant(s) status?

Response: Please find attached a Financial and Data Summary that breaks down appropriations, responsibilities and grant(s) status.

Request 3: Are there reporting forms from grantees to track grant performance and expenditures?

Response: Please find attached an example of grantee submission Forms A through Q from West Maui Mountains Watershed Partnership, 1st Quarter of FY 2019. These forms are updated with actual quarterly expenditures and accompanied by a quarterly narrative report.

Request 4: Does DWS communicate and share information with other county or state departments that manage grants?

Response: DWS has collaborated with the following county and state departments to compare and contrast grant management practices:

1. The Department of Housing and Human Concerns Grants Management Division (GMD)
2. The Mayor's Office of Economic Development (OED)
3. The State Department of Land and Natural Resources (DLNR)

In addition to exchanging knowledge, representatives from DLNR and GMD have been members of the DWS Watershed Grants Analysis Committee for the past 3 years. Other county departments that may not handle grants have also been involved and encouraged to take part in this committee to understand the work we do to protect our watersheds.

Request 5: What is a "Performance Period" and when does it start?

Response: The Performance Period for each individual project starts when the project authorized administrator acknowledges the Notice to Proceed (NTP) letter sent to them after the agreement has been executed and grants funds released to reimburse grantees. The Performance Period generally lags behind the county fiscal year's four quarters. For example, if the NTP is issued in November 2019, the first quarter of the FY20 grant Performance Period will be November 2019 to January 2020.

Request 6: Can appropriated funding overlap regardless of contracting period?

Response: Yes, in cases where contracting delays occur and grant agreements are not executed according to our request for proposal (RFP) schedule, grantees may continue to expend appropriated funding for the Performance Period and receive a new fiscal year grant that may overlap with the current work being done. When a new grant is provided, project managers may choose to allocate resources to slow down or accelerate work. This is common since work can often be delayed due to unforeseeable emergencies such as fire, weather situations or staff loss. DWS also encourages grantees to seek outside funding to "match" or leverage DWS grants. As a result, many projects can continue working until funding is available. DWS will provide reimbursement as long as an agreement exists and a grantee only expends funds within its Performance Period.

Request 7: How do partners work with stakeholders to establish MOU's and watershed management plans that tie into the DWS goals?

Response: MOUs are made between multiple land owners and project stakeholders and mainly details the commitment and intentions of each stakeholder in contribution to the goals of a partnership. Pre-existing professional relationships and common goals are usually at the core of the MOU. Thus, the signatories are mostly highly experienced and capable in the field of watershed conservation and protection. MOUs may be good for many years and serve as a basis to form watershed management plans, which details the wide variety of work that will be conducted within the project area.

Watershed management plans are required for applicants to qualify for a Watershed Protection Grants Program grant to ensure that the proper arrangements are in place to conduct work in private and state lands, which includes right-of-entry (ROE) permits and easement rights.

Request 8: Who are the Grantees and what do they do?

Response: **Auwahi Forest Restoration Project (AFRP)**

Auwahi has become one of the most successful, world-renown, native forest restoration projects in Hawaii. They continue to restore dry forest lands on leeward Haleakala, assess the effects of native forest restoration on soil moisture dynamics and potential aquifer recharge, support hydrological research, and continue to provide a successful, expanding, community-based volunteer forest restoration and outreach component. The project excludes grazing animals, controls non-native kikuyu grass, and plants closely-spaced, rapidly growing native shrubs in fenced areas. This project provides three (3) demonstration sites for policy makers to understand a best management practice (BMP) of how to successfully reforest Maui.

Countywide Watershed Protection

The Department of Water Supply Water Resources and Planning Division also manages an appropriation to reinforce other important watershed preservation and restoration efforts in Maui County. Examples include supporting hydrological monitoring, combating emerging diseases on Maui such as Rapid Ohi'a Death (ROD), forest rehabilitation demo projects and targeted research. Supporting these efforts helps to bolster invasive ungulate and weed control already being conducted by grantees, and further develops watershed protection best management practices. When justified, these funds may also be available for project emergencies that may include, but not limited to, fence repair after major storms, fixing damaged vehicles and hiring temporary staff.

Funding for research to design cost-effective management practices to protect the mauka catchment basins in the East Maui Watershed against incipient miconia incursions was made available in FY19 to help improve current methods of widely attacking long-established miconia populations by focusing on the biological features and reproduction of miconia at higher elevations and applying Herbicide Ballistic Technology (HBT) in targeted, remote, areas where isolated, incipient, plants are unimpeded and thriving. This may slow dissemination of seeds and seed banking of up to 2100 acres of watershed by one plant alone and should ultimately reduce the number of miconia reaching early maturity when they are highly effective in bearing fruit. DWS hopes that this approach and collaboration with watershed partners can then be repeated in other high-priority areas to decelerate future costs and expansion of miconia.

East Maui Watershed Protection (EMWP)

The East Maui Watershed consists of approximately 120,000 acres and provides the largest harvested source of surface water in the state. This watershed services Upcountry residents and farmers from Haiku to Kanaio. Ongoing efforts to protect the watershed include fencing, ungulate control, invertebrate and small mammal control, weed management, rare species protection, removal of invasive species, monitoring, education, public outreach and volunteer recruitment to repair and install fencing, and plant native species. This project also works closely with another DWS grantee, the Waikamoi Upcountry East Maui Source Protection under the Nature Conservancy (TNC), to preserve and protect ten (10) major stream headwaters that supply the Ko'olau and Hana aquifer sectors.

East Moloka`i Watershed Protection (EMoWP)

The East Moloka`i watershed is approximately 18,500 acres. Major problems in the area include feral animals, invasive weeds, and fire. Ongoing efforts include ungulate control, weed sweeps, fencing and fence maintenance, re-planting, erosion control, monitoring, mapping, and continuous research with entities such as the United States Geological Survey (USGS) that measure water quality and stream flows.

Hawaii Agriculture Research Center (HARC) – Developing Wilt Resistant Acacia Koa

With major land use change and declines in sugarcane, pineapple, and cattle production, there is an opportunity and keen interest in utilizing native koa in reforestation and restoration efforts, especially in watershed rehabilitation. Moderate to high mortality rates caused by *Fusarium oxysporum* f.sp. koae in many plantings have impeded past efforts. The reintroduction of koa on a landscape level will directly benefit the long-term sustainability of Maui County's water supply in high priority watersheds. HARC develops a network of sites and establishes wilt resistant koa seed orchards in multiple eco-regions.

Honokowai/Wahikuli Watershed Management (TNC)

The Honokowai and Wahikuli watersheds, located within the Kapunakea Preserve in West Maui, have been designated priority watersheds by the Hawaii Department of Health (DOH), the Environmental Protection Agency (EPA), and the National Oceanic and Atmospheric Administration (NOAA). The project area encompasses a perpetual conservation easement of 1,264 acres. Feral ungulates and invasive weeds are major threats to these watersheds. Axis deer have greatly expanded their range on Maui. Control efforts, including replacement and retrofit of 1.1 miles of fence from 6 feet to 8 feet, are currently underway. This project works closely with the West Maui Mountain Watershed Partnership (WMMWP) to combat these threats and to help preserve the pristine mauka headwaters of the Honokowai and Wahikuli watersheds. Included in their efforts are community outreach, nursery maintenance, and coordinating Rapid Ohia Death (ROD) efforts amongst all watershed partners.

Leeward Haleakala Water Restoration Project (LHWRP)

Plans are in place to continue to protect and restore dry forest lands on leeward Haleakala and examine impacts on moisture-holding to improve both recharge and water quality in the area. Additional plans are to preserve and provide a reserve from which certain important forest species can recover, install expansion fencing, increase productive vegetation using native species, broadcast seed, conduct biological survey, and recruit volunteers to help with an intensive labor effort in cooperation with local, state and private stakeholders.

Maui Invasive Species Committee (MISC) Miconia Containment and Removal

MISC continues to monitor and remove the spread of miconia over one thousand acres in the Hana forest that are hard to access on foot. Core efforts include repeated removal, treatment of existing areas of growth, and prevention of seed dispersal. MISC also conducts public outreach events and works with other watershed partners to help manage other invasive weeds including pampas grass, fountain grass, ivy gourd, giant reed, rubber vine, Jerusalem thorn, malabar malestome, downy rose myrtle, ruby salt bush, and others. Survey work includes detecting, identifying, and controlling potential problem weeds before they become difficult to control in remote, inaccessible areas.

Pu`u Kukui Watershed Preserve (PKW)

Over 8,600 acres of the Pu`u Kukui Watershed Preserve is one of the most pristine and wettest places on earth. DWS contributes to ongoing efforts that include ungulate control through fencing, trapping and surveying, invasive plant control, rare species protection and research, and water quality testing. These tasks are required to maintain the biodiversity that keeps Pu`u Kukui Watershed Preserve resilient to climate and ecological change so it remains efficient in increasing aquifer recharge. Other important work includes sedimentation prevention, stabilizing riparian buffers and gulches, and strong public outreach to educate and recruit volunteers for watershed conservation and protection efforts.

West Maui Mountain Watershed Partnership (WMMWP)

Over 47,321 acres of the West Maui Mountains is being protected and preserved because it is key to maintaining efficient recharge and groundwater supply being utilized by DWS and the community in the West and Central Maui areas. WMMWP continually combats feral ungulates, invasive weeds, human disturbances, and wildfires in a coordinated effort with Maui Land and Pineapple Company (MLP), the Nature Conservancy (TNC), the Maui Invasive Species Committee (MISC) and the Plant Extinction Prevention Program (PEPP). Ongoing efforts include expanding and maintaining ungulate fencing, retrofitting and conducting regular trap checks, weed management, plantings, continuous monitoring, and human activities management through outreach, education, and curbing use of the area. With the discovery of ROD on Maui, WMMWP is also now planning with other partners to find viable ways to stop the spread of ROD.

Request 9: What is the requirement for expenditures and performance and how does it apply to benchmarking?

Response: Grantees are required to submit invoices with a quarterly report before DWS can process request for payments. Allowable payments are only for expenses incurred during a quarter-block of a twelve (12) month Performance Period. That is, invoices that are submitted must line up with a particular quarterly report. Likewise, dates on invoices must not be found to be outside of the Performance Period.

DWS specifically looks for consistency and transparency once the Performance Period has begun. Forms A through Q are to be updated accurately every quarter because they are used to benchmark the grantee's administration. Administration and Overhead (A&O) costs cannot exceed 15% of the total grant award amount for each grantee. Therefore, DWS expects grantees to commit orderly, timely, and efficient grant administration. DWS should only receive reports and documents that have already been vetted and checked by both the project manager and administrator.

Since the grading scale is based on trust and contractual specific performance requirements, we only maintain a grants tracking spreadsheet and make notes of any issues and concerns that may arise for each grant. Performance over the fiscal year is considered by the Grant Analysis Committee in evaluating grantees' proposals for the following fiscal year.

Honorable Alice Lee, Chair
Water and Infrastructure Committee
November 14, 2019
Page seven

Request 10: How does staff turnover affect the projects?

Response: Losing staff is inevitable in any workplace, but losing staff working in specialized fields poses a threat to progress for our grantees. Grantees' staff are usually highly skilled and may possess special certifications and degrees related to high risk and profession/scientific work. This makes it very hard to find and replace valued members of the project any time during a Performance Period. When loss does occur, there may be a shortfall in productivity, including delays in field work and administrative obligations. Since project staff are geared towards field work, it is usually administration that falls behind first followed by field work. Our observation is that it can take a year or longer to fill certain positions, despite the availability of funds. This makes it extremely important for DWS to vet all proposals to make sure that organizational charts are updated and current before recommending the right amount of funding for personnel.

We are hopeful that the responses provided helps clear up some ambiguity that you may have regarding our grants program.

Sincerely,



JEFFREY T. PEARSON, P.E.
Director

Attachment

cc: Helene Kau, Deputy Director

FINANCIAL SUMMARY - FISCAL YEAR 2019

GRANTEE	Total Grant Amount	*Funds Spent	FUNDS remaining
East Maui Watershed Partnership - UH-ORS	\$330,000.00		\$330,000.00
Leeward Haleakala Watershed Restoration Partnership - UH-ORS	\$190,000.00		\$190,000.00
Auwahi Forest Restoration Project - UH-ORS	\$60,000.00		\$60,000.00
West Maui Mountains Watershed Partnership - UH-ORS	\$450,000.00		\$450,000.00
Maui Invasive Species Committee - UH-ORS	\$500,000.00		\$500,000.00
Bio Eco Models for Protection Against Miconia Invasion	\$95,186.00		\$95,186.00
Honokowai and Wahikuli Source Protection Project - TNC	\$75,000.00	\$24,107.98	\$50,892.02
Waikamoi Haipua'ena Source Protection Project - TNC	\$250,147.00	\$64,940.88	\$185,206.12
East Molokai Watershed Partnership - TNC	\$250,000.00	\$62,452.78	\$187,547.22
Pu'u Kukui Watershed Preserve - Tri-Isle RC&D	\$285,000.00	\$44,607.73	\$240,392.27
Hawaii Agriculture Research Center	\$56,500.00	\$4,838.04	\$51,661.96
TOTAL	\$2,541,833.00	\$200,947.41	\$2,340,885.59

*Unavailable Unspent Funds data may be due to DWS not yet receiving request for payments that may be due to pre-audit by the Administrator before being sent to D



**COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
WATERSHED PROTECTION GRANT PROGRAM**

(FORM A) APPLICANT INFORMATION

Fiscal Year 2019

Date of Application	<u>12/4/2018</u>		
Organization & Project	<u>University of Hawaii/Mauna Kahalawai Watershed Partnership</u>		
Mailing Address	<u>2440 Campus Road, Box 368</u>		
	<u>City Honolulu</u>	<u>State HI</u>	<u>Zip Code 96822</u>
Physical Address	<u>2425 Campus Road, Sinclair Library Room 1</u>		
	<u>City Honolulu</u>	<u>State HI</u>	<u>Zip Code 96822</u>
Field Operations Address	<u>P.O. Box 13240</u>		
	<u>City Lahaina</u>	<u>State HI</u>	<u>Zip Code 96761</u>
Executive Director	<u>Leonard Gouveia</u>	Phone	<u>808-956-8259</u>
		Email	<u>lgouveia@hawaii.edu</u>
Authorized Administrator	<u>Georgette Sakumoto</u>	Phone	<u>(808)956-4056</u>
		Email	<u>gsakumot@hawaii.edu</u>
Grant Project Manager	<u>Dr. Clifford Morden</u>	Phone	<u>(808)956-9636</u>
		Email	<u>cmorden@hawaii.edu</u>
Grant Project Coordinator	<u>Chris Brosius</u>	Phone	<u>(808)661-6600</u>
		Email	<u>brosius@westmauiwatershed.org</u>

Previous Fiscal Year Grant Funding Received \$350,000 awarded FY18



COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
WATERSHED PROTECTION GRANT PROGRAM

(FORM B) REQUIRED DOCUMENTS & FORMS CHECKLIST
 FISCAL YEAR 2019

Applicant/Grantee: University of Hawaii/Mauna Kahalawai Watershed Partnership		ATTACHED
DOCUMENT AND FORM		
A. Tax Clearance Certificate or Certification of Vendor Compliance (certified and dated within the last six (6) months).		<input checked="" type="checkbox"/>
B. Annual Financial Statements: Current financial statements for the past three (3) years. One (1) year must be audited.		<input checked="" type="checkbox"/>
C. DWS Grants General Terms and Conditions signed by the authorized grant administrator and its executive director.		<input checked="" type="checkbox"/>
D. The names of other funders and grants for the proposed project with DWS, including their individual contribution amount.		<input checked="" type="checkbox"/>
E. An administration cost breakdown of direct and indirect cost rates not exceeding the allowable percentage of the total grant amount. The direct and indirect administrators must also be identified. [The expenditure rules for both direct and indirect costs will be outlined in Section 1.5, Budget Instructions]		<input checked="" type="checkbox"/>
F. All fillable forms included in the Watershed Protection Grants Program Application (Forms C through Q)		<input checked="" type="checkbox"/>
G. A Statement of Self-Insurance (State applicants)		<input checked="" type="checkbox"/>



COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
WATERSHED PROTECTION GRANT PROGRAM

Applicant/Grantee:	FISCAL YEAR 2019		Performance Period = 4 Quarters (4 Qtrs = 100%)								WARNING: ALL FORMS WILL RESET IF CLICKED	
	Included	Target	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Percent Completed Final Report	
	(yes/no)	Goal	Goal Amount 1st Qtr	% 1st Qtr	Goal Amount 2nd Qtr	% 2nd Qtr	Goal Amount 3rd Qtr	% 3rd Qtr	Goal Amount 4th Qtr	% 4th Qtr	Total %	Target Goal Reached
University of Hawaii/Mauna Kahalawai Watershed Partnership												
UNGULATE CONTROL	<input checked="" type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Fence construction (ft)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Fence inspection (ft)	<input checked="" type="radio"/> Yes <input type="radio"/> No	139875	45220	32								<input type="radio"/> Yes <input type="radio"/> No
Surveyed transects (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	31	12	39								<input type="radio"/> Yes <input type="radio"/> No
Install traps (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	100	6	6								<input type="radio"/> Yes <input type="radio"/> No
Maintain traps (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	4601	1285	28								<input type="radio"/> Yes <input type="radio"/> No
Ungulate removal (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	15	7	47								<input type="radio"/> Yes <input type="radio"/> No
Other (please describe) Ground scouting/surveys (acres)	<input checked="" type="radio"/> Yes <input type="radio"/> No	20	9.8	49								<input type="radio"/> Yes <input type="radio"/> No
WEED CONTROL AND ERADICATION	<input checked="" type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Survey sites (number of acres)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Weed removal (number of acres)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Apply herbicide - HBT (number of applications or acres)	<input checked="" type="radio"/> Yes <input type="radio"/> No	100	0	0								<input type="radio"/> Yes <input type="radio"/> No
Other (please describe) Tectococcus ovatus biocontrol sites	<input checked="" type="radio"/> Yes <input type="radio"/> No	4	0	0								<input type="radio"/> Yes <input type="radio"/> No
INVASIVE PLANT CONTROL	<input checked="" type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Ground Surveys (number of acres)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Aerial Surveys (number of acres)	<input checked="" type="radio"/> Yes <input type="radio"/> No	200	66	33								<input type="radio"/> Yes <input type="radio"/> No
Invasive plant(s) controlled (combined acres)	<input checked="" type="radio"/> Yes <input type="radio"/> No	63	20.9	33								<input type="radio"/> Yes <input type="radio"/> No
Miconia (acres)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Pampas grass (acres)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Fountain grass (acres)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Himalayan ginger (acres)	<input checked="" type="radio"/> Yes <input type="radio"/> No	5	0	0								<input type="radio"/> Yes <input type="radio"/> No
Gorse (acres)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Ivy gourd (acres)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Strawberry guava (acres)	<input checked="" type="radio"/> Yes <input type="radio"/> No	27	13.4	50								<input type="radio"/> Yes <input type="radio"/> No
Other plant (please describe) Clidemia hirta	<input checked="" type="radio"/> Yes <input type="radio"/> No	17	5.6	33								<input type="radio"/> Yes <input type="radio"/> No
Other (please describe) Morella faya and other Priority Species	<input checked="" type="radio"/> Yes <input type="radio"/> No	14	1.9	14								<input type="radio"/> Yes <input type="radio"/> No
RESOURCE MONITORING/RESEARCH	<input checked="" type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Monitor rain gauges (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	1	0									<input type="radio"/> Yes <input type="radio"/> No
Other (please describe) (Photo/Veg plots)	<input checked="" type="radio"/> Yes <input type="radio"/> No	32	0	0								<input type="radio"/> Yes <input type="radio"/> No
COMMUNITY OUTREACH (#/hrs)	<input checked="" type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Educational hikes (number)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Volunteer trips (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	6	1	17								<input type="radio"/> Yes <input type="radio"/> No
Outreach events (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	5	1	20								<input type="radio"/> Yes <input type="radio"/> No
Public presentations (number)	<input checked="" type="radio"/> Yes <input type="radio"/> No	10	5	50								<input type="radio"/> Yes <input type="radio"/> No
Volunteer recruitment (number)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Volunteer outplanting (number)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Other (please describe)	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
RESEARCH, GERMINATION, AND PLANTING	<input type="radio"/> Yes <input checked="" type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Collect native seeds for revegetation - attach species (lbs/kg)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Locate seed sites for planting (number in watershed)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Collect wilt resistant koa seeds (lbs/kg)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Distribute wilt resistant koa seeds (to watershed partners)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Outplanting for reforestation and management (number)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No
Other (please describe)	<input type="radio"/> Yes <input type="radio"/> No											<input type="radio"/> Yes <input type="radio"/> No

• Careful consideration should be given to your Target Goal. Reaching your Target Goal should be achieved over 4 quarters until the deliverable is 100% complete. Be sure to provide justification if you do not attain your Target Goal due to unexpected technical and personnel issues or weather related delays. Your proposal and updated quarterly reports will be used as reference, if more detail about your planned project activities to complete deliverables is needed.

• This form helps comply with Section 3.36.120, Monitoring and Evaluation, in the Maui County Code of Ordinances Chapter 3.36, Maui County Grants Program.

*Please attach narrative justifications or additional descriptions behind this form.



COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
 WATERSHED PROTECTION GRANT PROGRAM

(FORM D) PROJECT BUDGET SUMMARY

- Applicants should exercise caution and responsibility when requesting funds. Awards are considered based on applications with clear justification concerning the costs and activities to achieve contracted deliverables.
- Awarded funds are limited. Only request amounts that you are prepared to spend in a given performance period. Plan and follow project eligibility requirements under number one of Part VI, Eligible Projects, in the RFP.
- See Application Budget Instructions (Section 1.5), Grant Performance Period (Section 2.3), Gen. T&C's (Section 3.0), and Request for Reimbursements (Section 4.2.7) for guidance, limitations, and restrictions.
- Grantees should ensure that totals for each expense categories and invoices are reconciled with Form D. Reports and invoices that do not match submitted forms can result in long reimbursement delays.
- Grantees should not attempt to spend down remaining funds close to their project closeout date that alters your initial Scope of Work under Payments of the T&C without ample justification.
- Vehicles, equipment, supplies, and materials are for project-based work only and personal or recreational use is strictly prohibited.
- Please provide narratives for large unspent amounts if they were included in your initial grant proposal. See Application Budget Instructions (Section 1.5) for instructions on how to request a budget revision.

FISCAL YEAR: **2019**

GRANT NUMBER: **WC-0999**

NTP Start Date:

NTP End Date:

Applicant/Grantee	Proposal Budget Amount	Matching Funds	Award Amount	1st Qtr Drawdown Amount	2nd Qtr Drawdown Amount	3rd Qtr Drawdown Amount	4th Qtr Drawdown Amount	Grant Award Remaining Balance
University of Hawaii/Mauna Kahalawai Watershed Partnership								
EXPENSES								
A. Personnel (payroll taxes & fringes)	\$ 333,442.68		\$ 283,860.00	\$ 89,226.53				\$ 194,633.47
B. Transportation (e.g. fuel, etc)	\$ 0.00		\$ 0.00	\$ 0.00				\$ 0.00
C. Contractual (e.g. helicopter, consultant, contractor, etc)	\$ 46,735.44		\$ 47,200.00	\$ 2,179.23				\$ 45,020.77
D. Facility Rental	\$ 0.00		\$ 0.00	\$ 0.00				\$ 0.00
E. Utilities (e.g. telephone, mobile, water, electricity)	\$ 6,790.00		\$ 5,230.00	\$ 740.59				\$ 4,489.41
F. Travel	\$ 11,600.00		\$ 10,040.00	\$ 1,654.17				\$ 8,385.83
G. Field Crew (e.g. training, certifications)	\$ 59,324.00		\$ 14,630.00	\$ 13.99				\$ 14,616.01
H. Supplies & Materials (including equipment)	\$ 38,361.00		\$ 33,513.00	\$ 1,630.90				\$ 31,882.10
I. Administrative & Overhead	\$ 48,145.31		\$ 40,909.00	\$ 9,670.45				\$ 31,238.55
J. Other Expenses	\$ 21,566.00		\$ 14,618.00	\$ 1,259.00				\$ 13,359.00
								\$ 0.00
TOTALS	\$ 565,964.43	\$ 0.00	\$ 450,000.00	\$ 106,374.86	\$ 0.00	\$ 0.00	\$ 0.00	\$ 343,625.14

*Comments/Notes Section Below

PLEASE ATTACH BUDGET NARRATIVE/JUSTIFICATIONS BEHIND THIS FORM IF NECESSARY



COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
WATERSHED PROTECTION GRANT PROGRAM

(FORM E) PAYROLL

FISCAL YEAR 2019

Applicant/Grantee:	Performance Period Drawdowns		NTP start date	NTP end date		Remaining Balance (\$)	
	SALARY (\$)	DESCRIPTION FTE % AMOUNT	1st Quarter SALARY (\$)	2nd Quarter SALARY (\$)	3rd Quarter SALARY (\$)		4th Quarter SALARY (\$)
University of Hawaii/Mauna Kahalawai Watershed Partnership							
POSITION NAME/TITLE	* All included expense invoices must be dated within NTP start and end dates						
Program Manager 35%	\$ 88,601.00	\$ 31,010.00	\$ 11,518.17	\$ 0.00	\$ 0.00	\$ 0.00	\$ 19,491.83
Natural Resource Operations Manager 35%	\$ 66,163.00	\$ 23,157.00	\$ 8,642.55	\$ 0.00	\$ 0.00	\$ 0.00	\$ 14,514.45
Program Associate 35%	\$ 59,629.00	\$ 20,870.00	\$ 7,789.17	\$ 0.00	\$ 0.00	\$ 0.00	\$ 13,080.83
Natural Resource Management (NRM) Supervisor (Fencing) 35%	\$ 58,771.00	\$ 20,570.00	\$ 7,676.97	\$ 0.00	\$ 0.00	\$ 0.00	\$ 12,893.03
NRM Technician (Ungulate Control) 35%	\$ 49,200.00	\$ 17,220.00	\$ 6,715.80	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,504.20
NRM Specialist (Invasive Weed Control) 35%	\$ 48,000.00	\$ 16,800.00	\$ 6,333.60	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,466.40
Field Assistant II 35%	\$ 44,305.00	\$ 15,507.00	\$ 5,898.09	\$ 0.00	\$ 0.00	\$ 0.00	\$ 9,608.91
Field Assistant II 35%	\$ 37,011.00	\$ 12,955.00	\$ 5,428.65	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7,526.35
Field Assistant II 35%	\$ 35,772.00	\$ 12,520.00	\$ 2,307.16	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10,212.84
Field Assistant I 35%	\$ 31,200.00	\$ 10,920.00	\$ 3,273.14	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7,646.86
Field Assistant I 35%	\$ 31,200.00	\$ 10,920.00	\$ 2,115.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 8,805.00
Field Assistant I 35%	\$ 31,200.00	\$ 10,920.00	\$ 2,177.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 8,742.82
PCSU Specialist (5% Direct Cost)		\$ 19,481.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 19,481.00
			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Fringes and Benefits		\$ 61,010.00	\$ 19,351.05	\$ 0.00	\$ 0.00	\$ 0.00	\$ 41,658.95
Payroll Taxes							
Fringes and Benefits	\$ 174,314.00						
TOTALS	\$ 755,366.00		\$ 89,226.53	\$ 0.00	\$ 0.00	\$ 0.00	\$ 194,633.47

*Comments/notes section below

PLEASE ATTACH PROJECT JOB DESCRIPTION BY POSITION/TITLE BEHIND THIS FORM

- The proposed costs in this category are designed to accomplish project deliverables in the scope of work. The fringe benefit rate includes medical, retirement, group life insurance, long term disability, long term care, worker's compensation, FICA and other benefits consistent with the policies set by the Research Corporation of the University of Hawaii through which WMMVWP staff are hired. The salary costs above assume a 5% increase for FY19 above current FY18 rates. The Taxes and Fringe Benefits are increased at the same rate. The average Fringes and Benefits rates for current staff is 30% and used to calculate this cost. The benefits rate varies slightly and is based on individual's family structure. The actual salary and fringe per position may vary dependent on the staffing at the time of the award and contract period.

- This Staff structure provides for the advancement of Field Assistants from level I to level II



COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
WATERSHED PROTECTION GRANT PROGRAM

(FORM K) FIELD CREW
Training and Certifications

FISCAL YEAR 2019

Applicant/Grantee:	COST (\$)	PURPOSE	Performance Period Drawdowns				Remaining Balance (\$)
			1st Quarter ACTUAL EXPENSES (\$)	2nd Quarter ACTUAL EXPENSES (\$)	3rd Quarter ACTUAL EXPENSES (\$)	4th Quarter ACTUAL EXPENSES (\$)	
University of Hawaii/Mauna Kahalawai Watershed Partnership							
* All included expense invoices must be dated within NTP start and end dates							
Crew Field Supplies	\$ 6,230.00	Fieldwork	\$ 13.99	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6,216.01
Crew Training and Registration	\$ 8,400.00	Training, PD	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 8,400.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
TOTALS	\$ 14,630.00		\$ 13.99	\$ 0.00	\$ 0.00	\$ 0.00	\$ 14,616.01

*Comments/notes section below

PLEASE ATTACH ADDITIONAL NARRATIVE/BREAKDOWN BEHIND THIS FORM IF NECESSARY

- Field Crew Supplies includes items such as saw blades, rope, rappelling gear, work gloves, fencing tools, camp gear (tents, sleeping bags, rain protection, etc), hand held GPS units (~\$450 per unit), radios (~\$500 per unit), power tools, packs (~\$100 each), boots (~\$300 per pair), sun protection, T- shirt uniforms, work pants, etc.

- Field crew training includes technical training and cross training in field based observations, computer software, wilderness first aid, CPR, rappelling, helicopter safety, database use, and/or Unmanned Aerial System (UAS) training/registration (extensive training required for non-recreational use of UAS applications by the FAA). Fees range from \$100 to \$350 per person. NRM Fencing Supervisor Ropes Leader Certification Registration is estimated at ~\$3500.



COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY
WATERSHED PROTECTION GRANT PROGRAM

YEAR 1

(FORM Q) CALCULATION WORKSHEET

• Please provide narratives for large unspent amounts if they were included in your initial grant proposal.

FISCAL YEAR: <u>2019</u>	GRANT NUMBER: <u>WC-0999</u>	NTP START DATE: _____	NTP END DATE: _____
Applicant/Grantee: <u>University of Hawaii/Mauna Kahalawai Watershed Pa</u>			

Total Award Amount	\$ 450,000.00
10% Withheld	\$ 45,000.00

Non-Fixed Expenses (NFEs) Only	
1st Qtr	\$ 6,737.29
2nd Qtr	\$ 0.00
3rd Qtr	\$ 0.00
4th Qtr	\$ 0.00
<i>Total Non-Fixed</i>	\$ 6,737.29

Fixed Expenses (FEs) Only	
1st Qtr	\$ 99,637.57
2nd Qtr	\$ 0.00
3rd Qtr	\$ 0.00
4th Qtr	\$ 0.00
<i>Total Fixed</i>	\$ 99,637.57

Total Quarterly Request for Payment	
1st Qtr Payment Request	\$ 106,374.86
2nd Qtr Payment Request	\$ 0.00
3rd Qtr Payment Request	\$ 0.00
4th Qtr Payment Request	\$ 0.00

Total Expenses	\$ 106,374.86
Remaining Funds	\$ 343,625.14

<p>PLEASE ATTACH BUDGET NARRATIVE/JUSTIFICATIONS BEHIND THIS FORM IF NECESSARY</p> <p>NOTES: -Total Expenses should not exceed your Total Award Amount. -Non-Fixed Expenses (NFEs) include Form F, Transportation; Form G, Contractual Services; Form J, Travel; Form K, Field Crew; Form L, Supplies; Form N, Other Expenses; Form O, Equipment and Supplies Inventory -Fixed Expenses (FEs) include Form E, Payroll; Form H, Facilities; Form I, Utilities; Form M, A&O -The requested drawdown amounts for each quarter for NFEs and FEs should be based on project needs that are consistent with your approved proposal.</p>	<p style="text-align: center;">*Comments/Notes Section Below</p>
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FY 2019 Data Summary

GRANTEE	ACREAGE MANAGED	MILES OF FENCE INSTALLED	UNGULATE CONTROL	INVASIVE/ WEED CONTROL	REVEGETATION	RESOURCE MONITORING	COMMUNITY OUTREACH	FUNDS LEVERAGED	MANAGEMENT PLAN	updates
East Maui Watershed Partnership - UH	10,800 of 122,000 acres	7.7 EMWP + 37.3 partners = 45	Q1 6.66 miles of fence inspected 110 traps established	priority weed targets along fencelines and in LZs (6.66 mi) removed by hand or treated with approved herbicide; pine plants across ~180 acres removed, no gorse found in the area			5 events - 762 engaged 3 art hikes - 25 participants presentations - 140 participants 2 volunteer planting		2013 - 2018	Q1
Leeward Haleakala Watershed Restoration Partnership - UH	16,706 ac	13 miles							draft 2018 - 2028	
Auwahi Forest Restoration Project	184 ac	2 miles			volunteers planted native seedlings, pull invasive weeds and gathered regional native seeds for future restoration plantings; seeds from 6 rare Hawaiian forest species were gathered; planted 1,947 native seedlings		5 volunteer trips conducted with 85 participants 3 events - Paul Simon Concert attended by more than 3,000 - Mr. Simon picked the Auwahi Project as one of two recipients for proceeds from his concerts on Maui; 58 people signed up to volunteer and private donations were received for the concert goers. Mr. Simon was also given an aerial biological tour of Haleakala Watershed forests. He also joined the community at the tree planting ceremony to celebrate his contribution to Auwahi. With these events Auwahi was given an international exposure, with 76 articles online, 45 newspaper articles in 23 states		2014 - 2020	Q1
West Maui Mountains Watershed Partnership - UH	47,321 ac (14,282 DWS land)	26.5 miles (5.5 -DWS land)	8.6 miles of fence inspected added 2 m of fence 1285 traps checked 7 captures 195 traps removed 6 new traps added	surveyed 13.4 acres 200 invasives removed		The Honolua water quality monitoring has remained on hold indefinitely after the storm destruction last year. Future monitoring is still being assessed; will continue to monitor forest health for early detection and response	5 presentations - 130 students and teachers Facebook - 48 posts ; likes 1448 Ave reach - 803 Instagram - 34 posts; likes - 1032 Ave reach - 499		2013 - 2018	
Maui Invasive Species Committee - UH	119,500 ac*								til 2025	
BIO-ECONOMIC MODELS FOR PROTECTION AGAINST MICONIA INVASION PROJECT										
Waikamoi Haipua'ena Source Protection Project - TNC	8,951 of 122,000 ac	19 mi	8 miles of fence (including 3 mi Haipuena) inspected and maintained; no captures; 0 traps checked; 18 transects monitored; ZERO PIG CATCHES SINCE 2014	~2.5 acres swept for himalayan ginger; 18 sq mtr. Of ginger removed; ~15 ac or pines swept, 793 pines trees removed		Q1 - PEPP STAFF TO EVALUATE KNOWN CYANEA HORRIDA POPULATION	Q1 - 11 hikes (92 hikers), 1 vol.trip (12 vol), 1 sch grp serv trip (28 students) ROD WORKING GRP MTG - 7/24/19; OUTREACH MTGS HELD IN HANA, HAIKU & PUKALANI TO ADDRESS COMMUNITY CONCERNS, PARTICIPATED IN STATEWIDE rod GROUP CALLS		2013 - 2018	Q1
Honokowai and Wahikuli Source Protection Project - TNC	1264 ac	1.12 mi (additional 595 meters 8 ft - fence installed using other funder's grant)	Q1 - all boundary fences (1711M) inspected, 266 traps checked, no capture	29 ac surveyed - 1,121 Clidemia hirta removed		Q1 - no ungulate or weed transects monitored this qtr.			2016 - 2021	Q1
East Molokai Watershed Partnership - TNC	15,600 acres	15 mi - protecting 3,200 acres (needs add 5.5 miles of fence to enclose ~2080 acres)	9 miles surveyed 477 ungulates removed	Completed over 50 sweeps (53.6 acres), removed 1200 priority weeds		Some plots inside fenced units remained good and showed higher native plant diversity, outside fences units were much poor due to heavy pig signs; aerial survey of Australian Tree Fern on east Molokai was completed and approx extent of the north Halawa ATF population was identified. ATF is potential threat to all of Moloka's remaining upper native forest	6 meetings conducted - 132 attendees 1 workshop - 18 attendees 4 hikes - 42 participants		2016 - 2020	Q1
Pu'u Kukui Watershed Preserve - Tri-Isle RC&D	8,600 ac	13.63	Q1 - 1.9 miles inspected; 33 pigs removed 254 traps checked	6.93 ac surveyed 726 invasives removed	98 natives planted	All rain gauges checked; water testing conducted in the Honolua area	3 rain gauge hikes 6 volunteer trips 1 cultural workshop 70 individuals reached		2012 - 2018	Q1
Hawaii Agriculture Research Center	10 ac				site maintenance, monitoring of seed crops and monitoring of rat control ongoing; wilt resistant koa seedlings were distributed to various organizations/individuals on Maui - Maui School Garden Network, Piihola Ranch, The Maui Farm and other private landowners within windward Haleakala watershed.	Significant seed harvest is expected; 100 acres of windward Haleakala forest land was surveyed for overall forest health	project information on watershed restoration were shared to the recipients of koa seedlings			Q1

*MISC - portion of this acreage is included in the watershed partnerships' invasive/weed control area; residential surveys also done with property owners permission