Timber, Fish, & Wildlife Policy Committee March 7, 2019 FINAL Meeting Summary v. 4.5.19

Action	Responsibility
Reach out to SAG project managers to provide to Policy updated project one-pagers with the additional information requested by Policy including if and why a budget changed, the original budget, and the actual amount spent.	Howard Haemmerle
Develop a job description for participation in the Type N Alternatives Workgroup.	Darin Cramer, Curt Veldhuisen, and Emily Hernandez
Review the MPS budget outline shared at the March 7 meeting and send any further comments to the budget workgroup.	Policy representatives
Review the project one-pagers from CMER prior to the April 4 th Policy meeting.	Policy representatives

Decision	Notes							
Approve the February meeting summary.	The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.							
Accept the Alternate Plan Template Workgroup recommendations and extend the Workgroup timeline.	The Federal and Eastside Tribal caucus were absent; the Industrial Landowners, Small Forest Landowners, Counties, and State caucuses voted thumbs up; the Westside Tribal, Conservation, and DNR caucuses voted thumbs sideways.							
Motion that the Workgroup's review of template prescriptions be confined to the draft template simplified.	The Eastside Tribal and Federal caucuses were absent; The Westside Tribal caucus voted thumbs sideways; all other caucuses voted thumbs up.							

<u>Welcome, Introductions, & Old Business</u> – Policy Co-Chair Curt Veldhuisen, Skagit River System Cooperative (SRSC), and Terra Rentz, Washington Department of Fish and Wildlife (WDFW), opened the meeting and reviewed the day's agenda.

The group reviewed the February meeting summary. No edits were made.

<u>Decision (Motion 1)</u>: Approve the February meeting summary. The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.

Policy briefly discussed the AMP improvement process. Two leadership forums have taken place, and two caucuses have interviewed with a facilitator, Francine Madden. Francine will work with AMP participants in the spring and deliver a report to DNR. Another leadership forum will likely be scheduled once DNR receives Francine's report.

<u>CMER Update</u> – Jenny Knoth, Green Crow, and Doug Hooks, Washington Forest Protection Association (WFPA), CMER Co-Chairs, provided Policy with an update from the February CMER meeting.

- The Westside Type F Riparian Prescription Monitoring Program charter and communication plan were approved and will be delivered to Policy for approval.
- The Riparian Characteristics and Shade Study has a contractor actively working on the study design, which is expected to be completed in June.
- CMER discussed the February report from Policy. All of the projects for which CMER was seeking funding are moving forward.
- Ecology has determined that the Mass Wasting Landscape Scale Effectiveness study is no longer a Clean Water Act (CWA) milestone. The project seeks to understand the natural landslide frequency on western Washington landscapes. However, due to difficulty in comparing managed and unmanaged landscapes that are different in land type and ecology, the study has not moved forward. Policy will discuss whether this project will be kept or removed from the MPS.
- The Buffer Shade Findings Report will be completed on March 1. Mark Hayes will present on this study to Policy at its April or May meeting.
- The Hardwood Conversion, Westside Type N Buffer Characteristics, Integrity and Faction (BCIF), and Eastside Type F Riparian Effectiveness Monitoring [Bull Trout Overlay (BTO) Addon] studies have returned from Independent Scientific Peer Review (ISPR). They should arrive at Policy in the next few months.
- Howard Haemmerle, AMP Project Manager, shared that the Roads Prescription Scale Effectiveness project team is working to evaluate construction costs and whether there is enough budget to complete work on all 76 sites. Howard will report back to Policy when he learns further information.
- Dave Schuett-Hames, a geologist with the Northwest Indian Fisheries Commission (NWIFC), will be retiring at the end of the year, with a plan to transition a new person into the position during the last six months. Greg Stewart has also resigned from NWIFC. Curt Veldhuisen expressed appreciation for both Dave and Greg's contributions to the AMP. Dave is helping to review and update the position according to upcoming project needs.

Jenny Knoth noted that there has been some difficulty in communication between CMER and the SAGs. Some project steps have been delayed due to process issues, with resulting budget changes. Terra requested short memos to Policy describing project budgets that have changed and why. Terra also requested that the updated project one-pagers include why the budget changed, the anticipated budget, and actual amount spent. This information would enable Policy to make informed decisions. Policy and CMER Co-Chairs and the AMPA are taking steps to improve communications between the committees and among the SAG project managers.

Policy discussed the benefits of reviewing CMER position descriptions regularly. Terra Rentz noted that the Policy and CMER Co-Chairs have been discussing how to standardize this approach.

Ash Roorbach, NWIFC, offered to give a presentation on the updated roles and responsibilities sections of Chapter 3, Chapter 7, and Chapter 8 within CMER's Protocols and Standards Manual at the May Policy meeting.

<u>Action</u>: Doug Hooks will reach out to SAG project managers to provide to Policy updated project one-pagers with the additional information requested by Policy including if and why a budget changed, the original budget, and the actual amount spent.

<u>Legislative Updates</u> – Policy representatives reported on legislative outreach efforts. It was noted that the deadline to submit bill requests has passed.

Ken Miller, Washington Farm Forestry Association (WFFA), shared that Senate Bill 5330 passed the Senate and is at the House Agricultural and Rural Development Committee. There will be a hearing on March 15th. Ken requested that Policy representatives reach out to any House Appropriations Committee members that they know with support for this bill.

Jim Peters, NWIFC, has been tracking the Business and Occupation (B&O) tax reduction bill and associated surcharge (House Bill 2121/Senate Bill 1324). This surcharge would distribute funds to tribes, Ecology, and the AMP. Jim testified at a hearing several weeks ago at which the surcharge was attached. Further conditions are under consideration for addition to the bill, such as a funding cap. Additionally, the extension timeframe moved from 2056 to 2036.

<u>Small Forest Landowner Alternate Plan Template Workgroup Recommendations</u> – Marc Engel, DNR, and Ken Miller, WFFA, updated Policy on the Workgroup's progress and deliverables and summarized the Workgroup's report to Policy. Please see Attachment 2 for the Workgroup's recommendations to Policy that were submitted on February 26, 2019 in accordance with the Workgroup charter.

The Workgroup reviewed the State caucuses' proposed prescriptions for conifer thinning and conifer restoration. There is general agreement in the Workgroup that whichever documents are brought forward for recommendation must include a significant monitoring component, requirements for regeneration, and a periodic review process. Major points of non-consensus remaining include the RMZ widths and the eligibility of the Small Forest Landowner caucus's proposal to be a template.

<u>Motion 2</u>: Scott Swanson, Washington State Association of Counties (WSAC), moved that Policy approve the Alternate Plan Template Workgroup recommendations and extend the Workgroup timeline. Darin Cramer, WFPA, seconded. Policy discussed the motion. Discussion points are highlighted below.

- There was discussion of the dispute resolution process. It was clarified that dispute resolution can only be called at Policy, not within a Workgroup. Dispute resolution may be called on a decision, an action, or lack of action.
- Workgroup participants expressed willingness to continue working collaboratively, given that the Workgroup has a clear path forward. One participant stated that they expect to have less capacity to participate in the Workgroup later in the year due to other workload items.
- Marc Engel reminded Policy that the Workgroup focused on high-level prescriptions and did not
 review the entire proposal that was put before the Board in fall 2018. He also noted that the
 Workgroup has followed both science and policy tracks due to Policy's acceptance of the AMP's
 recommendation to do so.
- Ken Miller expressed that the top priority of the Small Forest Landowner caucus is that the prescriptions are put into effect, regardless of whether or not they constitute a template. Their top topics of interest are captured in the bullets A, B, C, and D of the Draft Template Simplified.

<u>Decision (Motion 2)</u>: Accept the Alternate Plan Template Workgroup recommendations and extend the Workgroup timeline. The Federal and Eastside Tribal caucus were absent; the Industrial Landowners, Small Forest Landowners, Counties, and State caucuses voted thumbed up; the Westside Tribal, Conservation, and DNR caucuses voted thumbs sideways.

<u>Motion 3</u>: DNR then moved that the Workgroup's review of template prescriptions be confined to the draft template simplified. The State caucus seconded. Policy discussed the motion.

It was clarified that the Workgroup was given direction to begin by reviewing the primary four prescriptions (A, B, C, and D in the draft template simplified). The acceptance or rejection of these prescriptions as written would determine the acceptability of many of the other prescriptions.

<u>Decision (Motion 3)</u>: Motion that the Workgroup's review of template prescriptions be confined to the draft template simplified. The Eastside Tribal and Federal caucuses were absent; The Westside Tribal caucus voted thumbs sideways; all other caucuses voted thumbs up.

Motion 4: Alec Brown, Washington Environmental Council (WEC), moved that Policy determine that the Alternate harvest Prescriptions for Small Forest Landowners in Western Washington proposal initiation from WFFA does not qualify as a template as written; and that identified work in Motions 2 and 3 approved by Policy on March 7, 2019 continue until completed. The Westside Tribal caucus seconded the motion. Policy then discussed the motion.

The Small Forest Landowner expressed discomfort with the motion as written, viewing it as an attempt to stop the whole process of considering opportunities for small forest landowners. Other caucuses responded that they do not view the motion in that way, nor do they intend to stop the process. Terra stated if this motion is not voted on at this meeting, it will need to be voted on when the Workgroup finishes its tasks.

The Small Forest Landowner Caucus moved to table Motion 4 until the April meeting. The Eastside Tribal and Federal caucuses were absent; the Small Forest Landowner and Industrial Landowner caucuses voted thumbs up; the State, DNR and Counties caucuses voted thumbs sideways; the Conservation and Westside Tribal caucuses voted thumbs down.

Policy then voted on Motion 4. The Federal and Eastside Tribal caucuses were absent; the Conservation, Westside Tribal, DNR, and State caucuses voted thumbs up; the Industrial Landowners and Counties caucuses voted thumbs sideways; the Small Forest Landowner caucus voted thumbs down. The motion failed.

Terra summarized that the Workgroup will be required to provide its final recommendations to Policy for the September Policy meeting.

<u>Type N Alternatives</u> – Policy discussed the formation of a workgroup for Type N Alternatives. Terra noted that because the Board has not met since Policy's last meeting, Policy has not received official direction from the Board. Hans Berge, AMPA, shared that he did not receive any nominations from Policy representatives regarding potential workgroup members.

It was recommended that Policy plan to compensate each workgroup member with a \$10,000 stipend. Policy representatives pointed out that there are more limitations around paying private sector employees for participation than government or tribal employees. The group flagged this as a discussion point for later meetings. Terra reminded Policy that state contracting policy limits the pool of potential participants to those without other current DNR contracts.

<u>Action</u>: Darin Cramer and Curt Veldhuisen will work with Emily Hernandez to develop a job description for participation in the Type N Alternatives Workgroup.

<u>High-Level Prioritization of Next Biennium Funds</u> – Terra Rentz began a discussion of the latest work regarding the prioritization of next biennium funds. The budget workgroup met on March 5 to work through the Master Project Schedule (MPS) and budget and discussed the following items:

• Terra noted several factors Policy should consider in designing the MPS. Firstly, project work cannot begin until the contract is signed. In order for a project to begin at the beginning of the given biennium, preparatory steps need to be completed prior to the end of the previous fiscal

- year. Secondly, site selection has caused delay in several projects. This delay could be up to two years.
- The Budget Workgroup discussed the clarification of roles of CMER scientists on projects. Some
 of the projects could engage CMER scientists more, and some need extra support for CMER
 scientists.
- The budget workgroup discussed overall staffing and support needs for the AMP. There are many vacancies within the AMP. Policy requested more information on what staffing the program needs in order to function effectively and deliver on necessary outcomes.

Terra then gave an overview of the latest version of the MPS budget spreadsheet (see Attachment 3). Hans Berge noted changes to the spreadsheet, and then reviewed the revenue portion of the Fiscal Year 2020 budget. Highlights are listed below.

- Proposed governor's budget: In the previous biennium, there was a fund shift in the proposed Governor's budget that filled the gap in the General Fund State. This was pulled out of the Forest and Fish Support Account (FFSA). For the 2019-2021 biennium, a similar amount of money was put back into the FFSA, balancing the account.
- The General Fund State AMP research budget received \$1.1 million per fiscal year.
- The yellow highlighted sections in the spreadsheet reflect items that are included in the expenses, but that are not within Policy's decision space. Hans is seeking more clarification on these projects. Policy discussed communicating to the Board its discomfort with these project allocations within the AMP budget.

Hans also gave an update on Policy's recommendations for reallocations of unspent funds. Highlights are listed below.

- Regarding the Road Maintenance and Abandonment Program (RMAP) checklist survey: Hans noted that several Policy representatives provided a convincing case for its strong connection to AMP goals. Hans and Marc Engel will work together to move the project forward.
- Equipment for Riparian Characteristics and Shade Study: Mark Hicks will work with others to move this project through a bidding process by the end of the fiscal year.
- Type N Workgroup needs: No movement on this item.
- Wetlands Management Zone Effectiveness There is uncertainty whether this will be spent by the end of the fiscal year. It is in CMER's hands.
- Eastside Light Detection and Ranging (LiDAR) Acquisition: Locations are plotted and an agreement is signed with the vendor. For the Mount Spokane area, the team is waiting for snowmelt. Hans recommended that if it cannot be flown by May 30, 2019, it will not go forward.
- Literature Review for Forested Wetlands: The allocated number is about \$15,000 higher than necessary.
- Pilot for Olympia Experimental State Forest (OESF): This project will likely underspend its budget by the end of June. The team can use previously collected data from other projects, which will bring the cost down.
- Fire Workshop: The Scientific Advisory Group-Eastside (SAGE) came up with a draft agenda for the proposed workshop, which helped provide focus. A Policy representative recommended including more professionals with fire expertise in the planning of the workshop.
- Chehalis LiDAR Acquisition: No update.
- Literature Review on Windthrow: No update.

Darin Cramer updated Policy on changes to the line items.

• AMP Project Managers: There are 3 Project Managers; Hans noted that the AMP needs more.

- CMER Scientists: Out of three total full-time positions, there is currently one current vacancy and one more by the end of 2019. There was discussion of the number of scientists employed for CMER projects in the past and how future project needs might shape the budget. Jim Peters noted that NWIFC is seeking funding for a wetland-specific scientist.
 - Terra Rentz requested that Policy representatives discuss among each other the need for CMER scientists in preparation to discuss at the April Policy meeting.
- CMER Eastside Scientist: The position description was shared with SAGE, which provided comments. This will be a DNR position housed at Ecology in Spokane. Hans is working internally to determine the classification. This position would be a statewide resource available not just for SAGE. They will be focused on forest health, fire, and riparian and hydrology.
 - Jim noted that it is important that CMER communicates how this position will be administered and supervised. Hans clarified that this position will only be working on CMER projects.
- Performance and Financial Audits: An AMP performance audit is scheduled for October 2019.
 Terra stated that the Policy Co-Chairs hope to get the Auditor's Office to begin discussions with
 Policy representatives earlier than October 2019. Representatives expressed desire for more
 information on what will be included. The financial audit that was completed previously was not
 comprehensive of the whole AMP. Hans will look into how to obtain the results of the financial
 audit.
- The allocations for the Type N Experimental Buffer Treatment in Hard Rock Lithologies projects may increase.
- Deep Seated Research Strategy: scoped 1-5. This line item is actually 5 distinct projects with separate scopes for each. The group discussed breaking this item down into individual line items. The Budget Workgroup will make this adjustment. Hans noted that it is necessary to fill the geologist position in order for work to be done on these projects.
- Mass Wasting Landscape Scale Effectiveness: This project will be removed from the MPS.
- Type N Soft Rock Extended Monitoring: These numbers are corrected from a previous version of the MPS.

In summary, Darin noted a possible positive variance by the end of the biennium, while the next biennium has a negative balance due to changes in project schedules. Policy will need to plan for funding shifts in upcoming biennia.

Ouestions and comments:

- Why did the Potential Habitat Break (PHB) Validation Study increase from \$700,000 to over \$1 million?
 - Hans responded that the Board decided to delay the field portion, which then got added to the next biennium. Jim Peters expressed concern that CMER won't be able to spend this entire budget.
- Why did the Forested Wetlands study drop to \$25,000?
 - The expense of the study design document was shifted to this year, which reduced the cost next year. The \$25,000 is allocated to finish study design and site selection.
- A Policy representative noted that the budget for the Soft Rock Existing Report will need to be increased to accommodate for onboarding costs of a new scientist.

<u>Action</u>: Policy members will let the budget workgroup as soon as possible know if they have any further comments on the MPS.

<u>Action</u>: Policy representatives will review the project one-pagers from CMER prior to the April 4th meeting.

<u>Extended Monitoring Policy/CMER Workgroup</u> – Curt Veldhuisen gave an update to Policy on the process to address extended monitoring.

Workgroup membership will include Darin Cramer, Curt Veldhuisen, Chris Conklin from Policy; and Doug Hooks, Harry Bell, and Chris Mendoza from CMER. Additionally, Emily Hernandez will help manage the workgroup.

Curt and Darin drafted a charter, and the workgroup is in the process of selecting dates for its first meetings. Policy discussed whether the workgroup's product needs to be approved by both CMER and Policy before going to the Board. The group recalled that the Board requested a report at its May meeting to inform the Soft Rock Extended project. Curt suggested developing with a draft framework to approach extended monitoring to present to the Board, with the recommendation to test the approach with Soft Rock Extended as its pilot project.

<u>Next Steps</u> – Policy reviewed the monthly workload document and the meeting schedule for 2019. There are rooms reserved at Ecology through December for Policy meetings.

Chris Conklin, WDFW, shared that he presented at the Forester's Forum on the considerations for the resiliency of aquatic and terrestrial habitats in the face of forest health. Chris reported that forestry professionals from other states said that they regard the Washington Forest Practices program as a model for success in collaborative management. Other states are going through rule changes and are looking for guidance in the process.

<u>Next meeting date</u>: Due to weather-related impacts to the Board's winter meeting schedule, the Policy April meeting was rescheduled to April 4th and 5th.

Curt put out the request for Policy representatives to step up to organize field trips for future Policy meetings.

The meeting was adjourned at 4:00 p.m.

Attachment 1 – Participants by Caucus at 3/7 Meeting*

Conservation Caucus

*Alec Brown, WEC

County Caucus

Kendra Smith, Skagit County *Scott Swanson, WSAC

Industrial Timber Landowner Caucus

*Darin Cramer, WFPA Doug Hooks, WFPA Martha Wehling, WFPA Jenny Knoth, Green Crow

Small Forest Landowner Caucus

*Steve Barnowe-Meyer, WFFA *Ken Miller, WFFA Harry Bell, WFFA

State Caucus - DNR

*Marc Engel, DNR Heather Gibbs, DNR Emily Hernandez, DNR

State Caucus – Ecology & WDFW

*Mark Hicks, Ecology
*Chris Conklin, WDFW
Terra Rentz, WDFW and Co-Chair
Don Nauer, WDFW

<u>Tribal Caucus – Westside</u>

*Jim Peters, Northwest Indian Fisheries Commission Ash Roorbach, Northwest Indian Fisheries Commission Curt Veldhuisen, Skagit River System Cooperative and Co-Chair

Tribal Caucus – Eastside

*caucus representative

Others

Hans Berge, Adaptive Management Program Administrator Howard Haemmerle, Adaptive Management Program Project Manager Rachel Aronson, Triangle Associates Annalise Ritter, Triangle Associates

Attachment 2: Policy Alternate Plan Template Workgroup Recommendations to TFW Policy

Date: February 26, 2019

From: Ken Miller and Marc Engel, Workgroup co-chairs

Subject: Policy Alternate Plan Template Workgroup Recommendations to the TFW Policy

Committee (Policy)

The Policy Alternate Plan Template Workgroup (Workgroup) has completed the work outlined in Policy directed work in deliverable #1 as summarized on page 6 in the final Workgroup charter, dated October 4, 2018. The Workgroup has met the charter timeline and has developed recommendations for full Policy consideration. In a final Workgroup meeting, on February 22, 2019, it was decided to submit the following report to Policy:

- 1. There is currently no consensus within the Workgroup that the proposed *Alternate Harvest Prescriptions for Small Forest Landowners in Western Washington* template, as a whole or in part, qualifies as a template.
- 2. Recommend Policy approval for the Workgroup to continue their review and evaluation of the SFL template in light of the ISPR review of the Cramer Fish Sciences report on the completed science process when the final draft is available, with an eye toward responding to all aspects of the Board's original motion, which includes the following items:
 - a. Whether the proposal meets the criteria for a template outlined in WAC 222-12-0403 and <u>consider different strategies</u> moving forward
 - b. Literature synthesis
 - c. Recommend next steps
- 3. Recommend Policy approval for the Workgroup to continue the evaluation of the draft State proposed experimental alternate harvest prescriptions and to work toward consensus.
- 4. Recommend Policy to extend the Workgroup charter and set a new timeline for Workgroup completion and recommendations back to Policy, with a target of five months after delivery of the final Cramer Fish Sciences report and direction from Policy.

The decision as documented at the February 22, 2019 Workgroup meeting: Approve the above recommendations to Policy. The Conservation, Counties and Industrial Landowner caucuses were absent; the Westside Tribal caucus voted thumb sideways, the State, DNR, and Small Forest Landowner caucuses voted thumbs up.

Attachment 3 - AMP Master Project Schedule and Budget

Master Project Schedule and Budget for the Adaptive Management Program
WORKING PY20/21 Budget - March 2019 discussion

*FY31+ Hidden for printing purposes

| Items for specific.

Expenditure	Source	FY2018 Approved	FY2019 REVISED	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
Administration and Program Staff										285,748				303,150
Program Administration (A-VIPA and Contract Specialist) Project Support (3.5 Project Managers)		267,000 346,500	257,000 294,500	261,500 361,700	261,500 361,700	269,345 372,551	269,345 372,551	277,425 383,728	277,425 383,728	285,748 395,239	285,748 395,239	294,321 407,097	294,321 407,097	303,150 419,309
CIVIER Scientists (3 Scientists at NWIFC)		566,533	507,717	547,625 128.750	547,625	564,054	564,054	580,975	580,975	598,405	598,405	616,357	616,357	634,847 149,257
CIVIER Scientist Eastside (NRS 4) Independent Scientific Peer-Review		75,000	70,000 60,000	128,750 67,500	128,750 67,500	132,613 69.525	132,613 69,525	136,591 71,611	136,591 71,611	140,689 73,759	140,689 73,759	144,909 75.972	144,909 75.972	149,257 78,251
TFW Policy Committee Facilitation		75,000	75,000	75,000	75,000	77,250	77,250	79,568	79,568	81,955	81,955	84,413	84,413	86,946
TFW Beard/Technical Work CIVIER Conference (Facility, refreshments, programs)		125,000	0	5,000		10.000		10.000		10,000		10,000		10,000
Contingency Fund for Active Projects		0	8,000	3,000 D	Q	100,000		100,000		100,000		100,000		100,000
Project Development Fund (holds unspent funds for "below the line") Technical Editor (on-call contract)		10,000	10,000	15,000	0	15,000	0	15,000	15,000	O O	15,000	15,000		15,000
AMP Audits Performance & Financial		10,000	10,000	0	G	15,000		15,000	15,000		13,000	13,000		1.3,000
Implementation Phase	RSAG													
Extensive Riparian Status and Trends Monitoring – Vegetation, Type F/N Westside (Remote Sensing)	RSAG	25,000	0	15,000										
CWA_Type N Experimental Buffer treatment Project in Soft Rock Litholog		221,000	140,000	25,000										
(1) Monitoring ends fall 2017, 2-yr post-harvest Type N Experimental Buffer Treatment in Hard Rock Lithologies	LWAG	134,000	236,000	20,000										
Extended Amphibian (Analysis & Summary Report)	Liviu		990000000											
Type N Experimental Buffer Treatment Project in Hard Rock Lithology — (1) Temperature Monitoring ends June 2017, Report extended data		100,000	136,655	20,000										
CWA_Eastside Type N Riparian Effectiveness (ENREP)	TWIG	297,680	632,886	623,811	632,394	686,719	626,609	366,695	152,267					
Field Testing/Pilot Phase														
CWA_Westside Type F Riparian Prescription Monitoring Site Selection Phase	TWIG	0	197,100	125,000	0	35,000	150,000	250,000	150,000	250,000	250,000	40,000	20,000	
CWA_Road Prescription-Scale Effectiveness Monitoring	TWIG	277,267	538,752	374,500	330,500	403,000	400,500	406,000	291,000	212,000	ramanananananananananananananananananana	or or an arrangement		arramentalia.
Potential Habitat Break Validation/Evaluation Study Pilot FY19 Study Design Phase	AM PA/ISAG	0	524,020	1,041.882	948,570	972,746	387,336							
CWA_Unstable Slopes Criteria Evaluation and Development	TWIG	25,000	50,000	100,000	100,000	250,000	240,000	150,000	20,000		marrasi Milia Mila.	mattation (1914)	animatikalikali.	mananananahah
CWA_Forested Wetlands Effectiveness Study Riparian Characteristics and Shade Study	TWIG RSAG	100,000	130,000 50,000	25,000 10,000	232,500 110,000	232,500 341,000	150,000 330,000	150,000 20,000	150,000	200,000	200,000	200,000	40,000	
Scoping Phase			50,000											
CWA_Wetlands Vlanagement Zone Effectiveness Monitoring	WetSAG UPSAG	10.000	0	25,000	25,000	100,000 70,000	70.000	360,000 70,000	360,000 70,000	360,000 70,000	360,000	100,000	45,000	70.000
Deep Seated Research Strategy* Eastside Timber Harvest Types Evaluation Project (ETHEP)	SAGE	10,000	0	D	0	70,000 0	70,000 0	70,000 0	70,000 0	/0,000	70,000	70,000	70,000	70,000
CWA_Road Sub-Basin-Scale Effectiveness Monitoring - Resample (Re-	UPSAG		Đ	D	a	0	0	0	0	0	75,000			
scoping) CWA_Wetlands Intensive Monitoring	WetSAG		0	0	0	0	0	0	0	50,000	0	0	0	0
CWA_Watershed Scale Assessment of Cumulative Effects (roads and	RSAG		0	0	ő	ő	0	ő	ő	5,000	50,000	340,000	340,000	340,000
riparian) post Effectiveness Monitoring Mass Westing Landscope Scale Effectiveness Proof of concept	UPSAG													
Extended Monitoring for Projects	Orsive	0	Ů,											
Add On Type N Experimental Buffer Treatment Project in Hard Rock	LWAG	0	0	D	C									
Lithology Extended Monitoring: AMPHIBIANS - 2 years (holding sites for potential resample)														
Add on_Type N Experimental Buffer Treatment Project in Soft Rock		0	0	159,000	151,000	40,000								
Lithology Extended monitoring through 2020 (FY21) Completed Long-Term Projects (FY18-19)							en er sen en e							
FPB_LiDAR Based Water Typing Model/Physicals Study Design (combined	FPB	60,000	128,202						HOUDH HOUSE HOUSE		acunancimination a	anaannaannaan.	ununununununununun	sucomunicament.
WFFA Template PI Technical Assessment AMP Improvement Facilitation (Principal's meeting)		52,000 100,000	24,400 30,000											
WetSAG Wetlands Mapping Tool Validation	WetSAG	25,000	104,000											
Riparian Literature Synthesis Project	una.e	20,000	0											
CWA_LWAG_Type N Experimental Buffer Treatment in Hard Rock Lithology Genetics (Response to ISPR Comments)	LWAG	10,000	5,000											
Type N Experimental Buffer Treatment Project in Hard Rock Lithology		87,000	0											
(2) Monitoring into 2019 until references lost Fish/Habitat Detection using eDNA rescoped to pilot project	ISAG	40,000	20,000											
Completed Short-Term Projects (FY18-19)														
RIVAP checklist survey Equipment Riparian Characteristics and Shade Study			25,000 30,000		Principal of the Control of the Cont									
Type Np Workgroup Needs (travel, facilitation, meetings, etc.)			10,000											
Scoping CWA_WetSAG_Wetlands Management Zone Effectiveness Monitoring			35,000											
Eastside LiDAR Acquisition (Part 1)			175,000											
Eostside LiDAR Acquisition (Port 2) Literature Review Forested Wetlands (Updated; WetSAG)			46,000 45,000											
Pilot Project Extensive Riparian Monitoring Implementation			45,000 75,000											
Fire Workshop			25,000											
AMP Research Expenses		3,058,980	4,695,232	4,026,268	3,972,039	4,741,302	3,839,782	3,427,592	2,738,164	2,832,794	2,595,794	2,498,068	2,138,088	2,206,760
Projected Available Funds for Research		3,781,600	3,781,600	3,949,350	3,949,350 (76,918)	3,781,600	3,781,600	(218,400)	(218,400)	(218,400)	(218,400)	(218,400)	(218,400)	(218,400)
Rollover funds from previous FY Balance at the end of Fiscal Year (accounting for Rollover)		722,620	722,620	(76,918)	(99,607)	(959,702)	(1,017,885)	(3,645,992)	(6,602,557)	(3,051,194)	(3,051,194)	{2,716,468}	(5,072,935)	(2,425,160)
				1000	1 1		Marie Co.				ACC TO SECUL			
REVENUE GF-S - AMP Carry Forward (i.e. base admin funding)		240,100	240,100	260,700	260,700	240,100	240,100	240,100	240,100	240.100	240.100	240.100	240,100	240.100
Reverse Fund Shift (FY20/21) - \$715,500 per FY				715,500	715,500									
GF-S - AMP Research FFSA - AMP (Business and Occupation Tax surcharge)**		1,640,000 5,307,000	1,640,000 5,307,000	1,107,000 5,679,000	1,107,000 5,679,000	2,947,000 4,000,000	2,947,000 4,000,000	2,947,000	2,947,000	2,947,000	2,947,000	2,947,000	2,947,000	2,947,000
Subtotal of Revenue		7,187,100 2,187,100	7,187,100	7,762,200	7,762,200	7,187,100	7,187,100	3,187,100	3,187,100	3,187,100	3,187,100	3,187,100	3,187,100	3,187,100
EXPENSES TFW Participation Agreements														
Tribal Participation Agreements		2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
NGO and County Participation Grants		475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500
State Agencies FFSA DAHP (Dept. Archeology & Historic Preservation)		430,000	430,000	430,000 94,500	430,000 94,500	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000
FFSA Agency Admin/AG/DVH				312,850	312,850									
Subtotal of TFW Participation Agreements PROGRAM TOTALS		3,405,500	3,405,500	3,812,850	3,812,850	3,405,500	3,405,500	3,405,500	3,405,500	3,405,500	3,405,500	3,405,500	3,405,500	3,405,500
Revenue		7,187,100	7,187,100	7,762,200	7,762,200	7,187,100	7,187,100	3,187,100	3,187,100	3,187,100	3,187,100	3,187,100	3,187,100	3,187,100
AMP Research Expenses TFW Participation Agreements		3,058,980 3,405,500	4,695,232 3,405,500	4,026,268 3,812,850	3,972,039 3,812,850	4,741,302 3,405,500	3,839,782 3,405,500	3,427,592 3,405,500	2,738,164 3,405,500	2,832,794 3,405,500	2,595,794 3,405,500	2,498,068 3,405,500	2,138,068 3,405,500	2,206,760 3,405,500
Balance at the end of each fiscal year		722,620	(913,632)	(76,918)	(22,689)	(959,702)	(58,182)	(3,645,992)	(2,956,564)	(3,051,194)	(2,814,194)	(2,716,468)	(2,356,468)	(2,425,160)
Cumulative Balance at end of Bienniur	n		(191,012)		(99,607)		(1,017,885)		(6,602,557)		(5,865,389)		(5,072,936)	

^{*} DSRS broken down by phases: Phase I: Mapping (4.5), GIS Toolkit Development (4.7), and pilots for Landslide Classification (4.6) and Groundwater Modeling (4.8); Phase II: Landslide Classification Project (4.6); Phase III: Groundwater Wodeling Project (4.8); Phase IV: Physical Modeling of Deep-seated Landslides; Phase V: Landslide Vonitoring Project

** FFSA For FV18/19 includes Long term (\$557,000) and one time (\$750,000) fund shifts, which were originally separate revenue line items

BELOW THE LINE SHORT TERM PRIORITIZED 1/3/2019													
hehalis LiDAR Acquisition		100,000											
terature Review - Windthrow		35,000											
LOW THE LINE LONG TERM all likely need scoping and/or study design	n built in												
dd On_Type N Experimental Buffer Treatment Project in Hard Rock													
thologyExtended Monitoring: AMPHIBIANS - 2 years	LWAG				111,000	262,000	80,000						
dd on_Type N Experimental Buffer Treatment Project - Soft Rock													
hologyExtended monitoring through 2024, FY2025					100,000	150,000	150,000	100,000	50,000				
on Dykes Salamander	LWAG		262,756	360,000	360,000	360,000	315,538						
tensive Riparian Status and Trends MonitoringPHASE 3													
plementation (to be determined after further discussion/work by RSAG)	RSAG		0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,00
VA_Amphibians in Intermittent Streams	LWAG		50,000	80,000	250,000	360,000	360,000	360,000					
VA Road Sub-Basin-Scale Effectiveness Monitoring - Resample					1000								
nplementation after rescoping)	UPSAG										350,000	350,000	150,00
terature Synthesis: Default Physical Criteria Assessment Project	ISAG	0 0											