

CMER SAG UPDATES

May 2024

WetSAG

Co-Chairs: Debbie Kay & Harry Bell

AMP Project Manager: Jenny Schofield (WMZ/FWEP)

Forested Wetlands Effectiveness Project

- Field work is ongoing.
 - Data downloads, data QAQC and water quality analysis from instrumented sites is ongoing and will continue for the next two water years.
 - Hemispherical photography is complete for 2023, will be repeated in summer 2024.
 - Meadow Run Environmental contracting has been completed. The project team will start summer field work at the end of the month.

Wetlands Management Zone

- Policy approved the WMZ Charter at the May 2023 meeting, with the expectation that any lingering questions and comments be addressed during the scoping process.
- Scoping is ongoing, WetSAG has reviewed the first draft. Authors are continuing to develop the document based on current feedback from WetSAG.

UPSAG

Chairs: Jennifer Parker & Mike Maudlin

AMP Project Manager: Theryn Henkel

Deep-Seated Landslide Research Strategy

Project Team: Julie Dieu, Rachel Pirot, Anne Weekes, Elise Freeman, Jennifer Parker

AMP Project Manager: Theryn Henkel

- The DSL Mapping and Landform Classification Study Design received final approval at the March CMER meeting.
- The Project Team has drafted the Prospective 6 Questions document, received final approval from CMER at April meeting. Will be presented to Policy at the June meeting along with a presentation from BGC about the study design.
- PT is beginning to develop the RFQQ for implementation of the Study Design. PT has reviewed first draft, have another meeting to finalize to go to UPSAG for discussion and feedback.

Unstable Slope Criteria Project

Project Team: Julie Dieu, Dan Miller, Ted Turner, Jeff Keck, Elise Freeman, Susan Shaw, Tiffany Justice

AMP Project Manager: Theryn Henkel

- The Object-Based Landform Mapping with High-Resolution Topography Study mapping is ongoing. Analysis comparing manual mapping to computer mapping has begun. Mapping is completed, PT is focusing on writing the report. Hope to have it to CMER for review by August.
- Implementation has begun on the Study Design for Empirical Evaluation of Shallow Landslide Susceptibility and Frequency by Landform (Project 3) and Empirical Evaluation of Shallow Landslide Runout (Project 4).

SAGE

Chair: Todd Baldwin

AMP Project Manager: Anna Toledo (ENREP), Jenny Schofield (ETHEP, Eastside Forest Health)

Eastside Timber Habitat Evaluation Project (ETHEP)

- The ISPR-approved study design was approved by CMER in November and delivered to Policy in December. Ben Spei presented an overview of the project to Policy.
- The Prospective Six Questions document was delivered to TFW Policy at the April meeting.
- Project Management Plan is being developed
- The project team is assembling datasets and setting up the landscape classification analysis workflow.

Eastside Forest Health Strategy

- SAGE is currently working to develop the full Eastside Forest Health Strategy after approval of strategy guidance document in Spring 2023.
 - Rachel is continuing to gather literature and geospatial datasets for a desktop analysis.
 - Rachel gave an update at the May SAGE meeting and will be giving a more in-depth presentation to SAGE in the coming months

Eastside Type N Riparian Effectiveness Project (ENREP)

- Field season is underway. Fish Creek harvest is expected to begin this month.
- The Project Team developed an updated Prospective 6 Questions document with information pertaining to the proposed project extension. The proposed 5-year extension of a reduced suite of variables would bring the total to 7 years post-harvest monitoring. SAGE approved the Prospective 6 Questions and sent to CMER.

RSAG

Chair: Joe Murray

AMP Project Managers: Anna Toledo (RCS, Riparian Function Literature Synthesis), Alexander Prescott (Westside Type F, Extensive Monitoring)

Riparian Characteristics and Shade Response Study

- PI Rachel Rubin and the PM are coordinating with Weyerhaeuser for implementation at two sites within the Northwest Coast ecoregion this summer. Plot layout, tree inventory, initial hemispherical photos and LiDAR flights have been completed at both sites. The PI and PM are also coordinating with cutting contractors to implement the cutting at the sites.

Westside Type F Riparian Prescription Effectiveness Project

- The Final Exploratory Report was approved by CMER and was sent to ISPR for review in November 2022. The project team received the ISPR response in January 2023. Revisions, including a clean and markup version of the revised report, comment matrix, and summary letter were submitted back to ISPR the week of April 8th 2024. A positive response from ISPR was received and the ISPR approved revised report will be going to CMER in May as a decision item.
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Extensive Riparian Status and Trends Monitoring – Riparian Vegetation and Stream Temperature, Type F/N Westside and Eastside Project

- The ExMo Project Team (PT) continues to make headway on scoping the project through the development of the Scoping and BAS documents.
- PT members have been outlining and writing various sections/elements of the documents and are now transitioning into a short-term preliminary review period where others' work is read/reviewed and subsequent writing assignments are refined and assigned.

Riparian Function Literature Synthesis

- RSAG approved the Riparian Function Literature Synthesis and sent it to CMER in May to initiate the 30-day review process.

ISAG

Co-Chair: Jason Walter

AMP Project Manager: Anna Toledo

Anadromous Fish Floor

- The AFF Project Team has been reviewing historic documents related to previous AFF work and conducting an after-action review.

Water Typing Strategy

- Projects currently included in the Water Typing Strategy are: Potential Habitat Breaks (PHB), Default Physical Criteria Assessment (DPC), LiDAR Based Water Typing Model (LiDAR), and Fish/HabitatDetection Using eDNA (eDNA).
- The PHB Project Team is working on desktop site selection. The Project Team has also made outreach to gauge the interest and availability of potential PI candidates.
- The DPC Project Team is working on the DPC Study Design and expects to initiate concurrent CMER/ISAG review in summer 2024.
- Western EcoSystems Technology, Inc. is supporting ISAG with statistical consultation for the PHB and DPC Study Designs.
- ISAG is looking for a new Co-Chair.

LWAG

Co-Chairs: AJ Kroll & Aimee McIntyre AMP
Project Manager: Jenny Schofield

Hard Rock

- Preliminary analyses to support report development have been completed.
- Report development is in progress.
- Anticipated delivery of report to CMER for review in September 2024.

Discontinuous Np Surface Flows

- The project team is continuing to develop the Scoping Document
- The first draft of the Scoping document has been delivered to LWAG.
- Scoping will be delivered to CMER upon LWAG approval (anticipated June delivery).

Road Prescription-Scale Effectiveness Monitoring

Project Team: Julie Dieu, Charlie Luce, Tom Black, Erkan Istanbuluoglu, Amanda Alvis, Jenelle Black.

AMP Project Manager: Alexander Prescott

- The Project Team (PT) continues to develop the 2024 interim report for expected delivery in the August 2024 CMER meeting.
- The PT continues to prepare for the implementation of the Sediment Trap Efficiency Experiment after the Detailed Implementation Plan was approved by CMER in April 2024. Execution of the STE is planned for June 2024.
- Mrs. Amanda Alvis, a UW doctoral candidate, had her PhD defense at UW on 5/20/24. Congrats Amanda!
- Amanda Alvis's previous paper has also recently been published in *Earth Surface Processes and Landforms* under title, *Using additional roughness to characterize erosion control treatment effectiveness in roadside ditch lines*
 - <https://doi.org/10.1002/esp.5763>
- Kimberly Vezzetti, an undergraduate student with Green River College, has completed her GIS course capstone via her sponsor and project contractor Westfork Environmental. Her work benefits the Roads Project through her collection of detailed spatial data and digital watershed delineation.
 - <https://arcg.is/ybfGC>
- The PT is in the early stages of collaborating with Neptune and Company, Inc (using the AMP Statistician Contract) to develop a work order to process traffic camera and count data using machine learning. This effort is ongoing as we explore using a convolution neural net approach to classify hundreds of thousands of traffic camera photos.
- The PT has recently re-executed an access agreement with Weyerhaeuser and is still working on extending an access agreement with Grays Harbor County.
- The PT continues to work on numerous data analyzation efforts related to microtopography,

flow imputation, rain gauge data management, flow calibration, turbidity, suspended sediment concentration, etc.

- The PT continues to work with the DNR Pacific Cascade (PC) region as we execute the annual road maintenance, with phase 1 starting May 1st and consisting of adding road surface rock and implementing ditch treatments/ditch maintenance.

Anticipated Documents for CMER Consideration/Review Next 12 Months						
Project Name	Document Type	Project Manager	Science Lead/PI	Oversight Committee	Original Anticipated Date	Anticipated Date of Delivery
Unstable Slopes Criteria Project - Landform Mapping	Final Report	Henkel	Elise Freeman (CMER)	UPSAG	Feb- 2023	August 2024
Westside Type F Exploratory Report	Final ISPR-Approved Report	Prescott	Jenelle Black (CMER)	RSAG	Mar-23	May-24
Westside Type F Exploratory Report	CMER Six Questions Document	Prescott	Jenelle Black (CMER)	RSAG	Mar-23	Aug-24
DPC	Study Design	Toledo	TBD	ISAG	Feb-23	July-24
Discontinuous Np Surface Flows	Scoping	Schofield	Aimee McIntyre (WDFW)	LWAG	Sept -22	June-24
Extensive Monitoring	Scoping Document	Prescott	Jeff Robins (ECY)	RSAG	Dec-24	Dec-24
Road Prescription-Scale Effectiveness Monitoring	Interim Report/Presentation	Prescott	Jenelle Black (CMER)	CMER	Jun-24	Aug-24
WMZ	Scoping	Schofield	Tanner Williamson (CMER)	WetSAG	May-24	TBD
Riparian Function Literature Synthesis	Literature Synthesis	Toledo	Rachel Rubin (CMER)	RSAG	Oct-23	May-24
Eastside Timber Habitat Evaluation Project	Project management Plan	Schofield	Rachel Rubin (CMER)	SAGE	March-24	June-24
* Policy Initiated Items- Not following CMER' Protocols and Standards Manual						