

LUCKY PEAK Lake View Trail Proposal

Presented to U.S. Army Corp of Engineers

Prepared by:

South West Idaho Mountain Biking Association

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Lake View Trail

Lucky Peak Lake, Boise ID

Project Description

Bird View and Lake View Trails 1 and 2 – collectively referred to hereafter as the Lake View Trail – are proposed to expand recreation and natural resource stewardship opportunities at the U.S. Army Corps of Engineers Lucky Peak Dam & Lake. This project entails the development of approximately 15-miles of new single-track trail from Lydle Gulch along the southern shoreline of Lucky Peak to the camping area known as Chimney Rock, located across from Spring Shores Marina. The Lake View Trail will be designed as a multi-use trail for low-density recreational purposes of mountain biking, horseback riding, hiking, fishing access, bird watching, picnicking, and nature study. The trail will also offer natural resource stewardship benefits such as improved pedestrian access for performance of biological surveys, wildland firefighting, and habitat management efforts such as reseeding and replanting efforts following fire. The trail may also buffer the spread of wildfire originating from the many recreational sites along the shoreline of Lucky Peak Lake.

The Lake View Trail will stay within the boundaries of the U.S. Army Corp of Engineers lands surrounding Lucky Peak Lake to the maximum extent possible (due to difficult terrain and location of boundary corners in cliff areas, very few, limited-distance easements may be needed from adjacent Federal and State agencies to “cross corners”). The trail will provide access to numerous amenities along the south shoreline (over 40 docks and shade shelters, and natural coves and beaches suitable for swimming). The first section of trail from Foote Park to Pipeline Gulch will be beginner in nature with minimal grades and a trail tread width of approximately 24”. Beyond Pipeline Gulch the trail difficulty will increase and vary in width from 18” to 36” to accommodate those looking for a more challenging trail experience.

This proposal complies with land use classifications of the 1988 Lucky Peak Master Plan (Volume 1, Section 4). In essence, after originating from High-Density Recreation areas (Barclay Bay and Turner Gulch) the trail connects Low-Density Recreation Areas along the south shore of Lucky Peak Lake by crossing Wildlife Management General areas. Both Low-Density Recreation and Wildlife Management General land use classifications allow for dispersed, low-impact, recreation use (“hiking, picnicking, hunting, fishing, nature study, photography, bird watching, and other similar activities”), with measures that lead to wildlife habitat improvement considered a management objective. The Lake View Trail proposal fits within the parameters of allowable recreation uses described in land use classification categories and enhances natural resource stewardship and habitat management capacities through improved access and fire prevention.

Needs and Goals Satisfied by Trail

Corps Mission: The U.S. Army Corps of Engineers (USACE) is the steward of 12 million acres of land and water resources nationwide, and manages 4,340 recreation sites at 456 lakes, approximately 56,000 miles of shoreline, 101,000 campsites, 5,000 miles of trails and receives approximately 400 million visits annually. The Walla Walla District (District) includes eight operating projects located in Washington, Oregon and Idaho. Daily, USACE works with its partners and public stakeholders to manage, improve, and preserve the land and water resources of the Walla Walla District. The Lucky Peak Lake View Trail furthers the District's efforts to work with partners to manage and improve its lands, to provide the public with unique user experiences currently not offered in the Treasure Valley, and energizes Boise's recreation economy.

Reducing Barriers to Participation: Lucky Peak Lake shoreline recreation opportunities generally entail isolated shade shelter picnic sites and dock strings accessible exclusively by boaters. The Lake View Trail would improve accessibility (including economic accessibility) of lake-side recreation to a broader recreational base. It would also provide boaters opportunities to venture from their developed sites to enjoy their diverse wildlife and sagebrush surroundings. At present, there are dismally zero designated recreational hiking or biking trails located at Lucky Peak Lake.

White House Initiatives and Connected Communities: The concept of the Lake View Trail trails dovetails with President Obama's and the First Lady's "Let's Move", "America's Great Outdoors", and "Every Kid in a Park" health initiatives. The Lake View Trail will provide beginner mountain bikers – kids and families – with opportunity to experience the outdoors along a meandering trail that undulates along the hillside with small gradient changes. With minimal additional effort over existing roadways, the Lake View Trail is also connectable to the City of Boise by the Boise Greenbelt exercise path. It is quite possible, over time, summertime users of the 21-mile Boise River Greenbelt may tag on an appealing 15-mile single-track trail ride along Lucky Peak Lake. All of these considerations fit part and parcel with White House Initiatives to engage the public – especially youth – in healthful outdoor activity and to connect communities with parks.

Economic Considerations: Part of USACE's mission is to strengthen and energize the economy and reduce risks from disasters. In summer of July 2012, Naill Garrah did a study on "*Open Land Utility: A Study of Conservation, Ecosystems Services and Recreation in Boise, Idaho*", which analyzed the economic impacts of open space and trails in the foothills surrounding the Boise area. This study estimated the foothills trails are used 293,400 times a year (Garrah p. 10) In a Ridge to Rivers trail user survey conducted in 2011, respondents were asked what they would be willing to pay for annual access to the foot hills trails. Based on the 71% of respondents that were willing to pay and the amount they were willing to pay for access to foothills trails, the combined willingness to pay for access across the entire population was estimated at \$242,110 annually (Garrah p. 11).

Another method of estimating recreation value developed by USACE is known as "Unit Day Value." This method uses a points system which weights the following factors of recreational experience, availability of opportunity, carrying capacity, accessibility, and environment. Julia Grant, a former Foothills Open Space Manager applied this technique and estimated the "unit day value" at \$7.62 for one person per day for a total of \$2.2 million based upon 293,000 visits on the Boise Foothills Trails (Garrah p. 12-13). Because of the unique opportunities provided by having water activities adjacent to the trail the "unit day value" will likely go up. It will also likely increase the value due to better dispersion of trail users and reduced user conflicts.

Fire Prevention and Restoration: As of 2015, USACE and the Bureau of Land Management (BLM) have an active Memorandum of Understanding with regard to fire prevention at Lucky Peak Lake. With over 80 boat-in-only sites on Lucky Peak Lake, fire danger is high. A major factor limiting fire prevention work is lake-level-dependent and remote access.

Through consultation with BLM, parties have identified Charcoal Flat and Placer Point boat-in recreation areas to be of highest concern for wildland fire threat due to vast, dense, and mature stands of sagebrush and the extremely limited access to the area. Recommendations here include establishing a six foot swath of bare dirt trail above the recreation sites, with reduced fuel zones of several feet to either side. This prescription far exceeds proposed Lake View Trail specifications but provides a great opportunity and example of how the Lake View Trail can achieve multiple goals under one action. The Lake View Trail tread width can be enlarged at Placer Point, Charcoal Flat as well as other areas of concern to achieve recommended fire prescriptions.

Following fire events, Idaho Department of Fish and Game (IDFG) and USACE have worked cooperatively to reseed and replant burned areas. Loaded with backpacks and spreaders full of seed, or with bundles of bare root sagebrush starts, volunteers traversing difficult side slopes hinders access and curtails effective work. New trail access to the southern shore of Lucky Peak Lake can only enhance restoration efforts.

Finally, Lucky Peak, as a convenient host site for BLM firefighters to refresh and recertify training, the Lake View Trail offers firefighters opportunities to fulfill physical training requirements as well as technical skill development such as felling certification, brush removal, hazard tree or limb removal, and practice of fire line construction (trail maintenance and construction).

Unique: During the summer months, temperatures can exceed 100 degrees in the Treasure Valley. There are currently very few places that trail users can go to enjoy outdoor adventure and cool off in the water along the way. The Lake View Trail would parallel the shoreline with pre-determined access points down to the water for lake use and enjoyment. This is a scenario not encountered within 100 miles of Lucky Peak.

Opening Doors: As envisioned, the first part of the Lake View Trail would be “beginner” in nature with grades of 5% or less with few if any obstacles in the tread. Beyond Turner Gulch, the trail would increase in difficulty with grades up to 6% and is where present obstacles would be incorporated into the trail. This design approach would help satisfy the need for more beginner trails in the Treasure Valley. Because most of the trails in the Boise Foothills go up drainages and don’t traverse hillsides, the trails are typically steep and not very suitable for learning to mountain bike. The Lake View Trail would provide riders the opportunity to get out and enjoy the outdoors while they work on improving their skills and fitness.

Regional Effects: The Lake View Trail proposal has the potential to provide better dispersion of trail users on the Boise Front. Currently, the trails in the Hulls Gulch and Military Reserve area are at carrying capacity and user satisfaction is suffering. The Ridge to Rivers partnership is currently engaging the public to help develop a 10-year Master Plan for the Boise Front trail systems that “meets the needs of our trail users while balancing wildlife habitat, clean water and natural resources management,” says David Gordon, Ridge to Rivers Program Manager. The Lake View Trail would add to the catalogue of options for Boise Front users and may reduce pressure on the Ridge to Rivers trail system.

Modeling a Balanced Management Strategy: The Lake View Trail creates an opportunity for education and control regarding the balancing of wildlife and recreation values. These trails affect areas owned by

USACE but are managed for elk and mule deer wintering range habitat under license to IDFG. These licensed lands add to the contiguous habitat of the Boise River Wildlife Management Area (WMA) which surrounds Lucky Peak Lake to the North and South – approximately 34,000 acres of wintering range. IDFG does an excellent job extolling the virtues of the WMA but the public continues to struggle with understanding the need for Wildlife Management Areas and seasonal closures, especially where large residential developments along the Warm Springs Avenue corridor have created additional strain on the boundaries of the Boise Front segment of the WMA. IDFG would benefit from having a model of success to tout for balanced use.

As counterpoint to the, at times, tenuous relations with private landowners neighboring the WMA, the Lake View Trail should ultimately provide a useful model for compliance with seasonal closures, meanwhile offering effective outreach, and improved recreational opportunity. Not experienced anywhere else in the Ridge to Rivers system is the level of trail access control possible at Lucky Peak Lake. There are no authorized vehicle routes, trails, trailheads or private residences intersecting or in the vicinity of the Lake View Trail; management plans of neighboring IDFG and Bureau of Land Management areas are poised to keep it that way. USACE controls access to the trail, therefore seasonal closures are easily patrolled and enforced. The Lake View Trail will be a successful demonstration of balancing wildlife needs with recreational access – respecting wildlife sensitivities with enforceable closures during winter months, and promoting responsible access and education during summer months when wildlife has emigrated the area. SWIMBA intends to work with IDFG and other local organizations to provide trailside information on issues germane to the WMA. Through this information campaign, we believe we can contribute to improving public compliance with IDFG management objectives on all three Boise River WMA segments: the Boise Front, Spring Shores, and Charcoal Creek.



Image 1. The Bird View trail rises from the Foote House historic area in Lydle Gulch above the artificially lake-irrigated gulch and riparian area. This “trail above the trees” would limit disturbances to bird and other wildlife within the riparian area, while allowing for bird watchers, photographers and others to observe from above. Benches placed along this trail would improve bird observation opportunities. The trail rises through the gulch to join existing service roads which would be utilized for connectivity to the Lydle Gulch Trailhead. Today, the Lydle Gulch area is most frequented by dog walkers, hikers, mountain bikers using the Oregon Historic Trail, horseback riders, trail runners, and disc golfers. The trails originate from the Foote House and Lydle Gulch trailhead parking areas to limit impact upon summer recreational boating use at Turner Gulch, and will capitalize upon existing information kiosks, restrooms and other infrastructure.



Image 2. After leaving the Lucky Peak Dam Recreation Area, the Lake View Trail strikes out easterly along the south shoreline of Lucky Peak. Ultimately, after many years of work, the 15-mile trail will extend upstream to Chimney Rock and terminate. Along this route, a number of access spurs to boat-in site areas and sandy coves will be created. There are no known cultural sites or threatened and endangered species in the area at this time. Trail would be constructed following the U.S. Forest Service Trail Class Matrix and Design Parameters with the designated use as bicycles.

Specification for Trail Construction

1. GENERAL

1.1. SCOPE OF WORK. The work to be performed is the complete construction of the Lake View Trail described in this solicitation. SWIMBA shall furnish all necessary labor, materials, equipment, tools, transportation, and supplies to complete the project in accordance with the specifications, drawings, and provisions of this agreement.

1.2. LOCATION AND DESCRIPTION. The Lucky Peak Lake View Trail will extend from the Foote Park area, all the way to the camping facilities at Chimney Rock.

1.2.1. Project Location. The project starts at Lydle Gulch located across Lucky Peak Dam from Highway 21. The project stays within the U. S. Army Corp of Engineer boundaries of the “south bank” with the possible exception of a couple of short sections of trail going up drainages such as Charcoal and possibly Birch Gulches.

1.2.2. Access. This project is accessible by a two wheel drive vehicle at the beginning point and boat/water craft at the ending point. The remaining portions of the segment are accessible by non-motorized trail modes of travel on Corps land or by crossing private property. Any authorization to cross private land must be arranged with the landowner by SWIMBA.

1.2.3. Identification of Project Area. The general route of the trail is depicted on Google Earth File “Lucky Peak Lake View Trail 1, 2 and 3.” The trail depicted in the Google Earth file is a general depiction of the location but will require on the ground surveying to assure the trail is located on the best soils, slopes and trail grades as possible given the boundaries of Corp property and site specific variables. This proposal is for general scoping discussions and the specific route will be marked on the ground the entire length with flagging and surveyors tape for final approval.

1.2.4. Start and Progress of Work - To be determined based on discussions with USACE. A proposed schedule is included in Appendix A to be viewed as a starting point and follows SWIMBA’s typical trail building approach.

2. SPECIFICATIONS.

2.1. Trail Construction Standards. Because of the inherent nature of trails and the objectives, over-constructing the trail should be avoided. Chain saws, weed whips, brush saws, come-alongs, Single Track 240 trail building machine, or similar equipment are the only mechanized equipment permitted on the project unless specific written permission is given.

The trail will be constructed following the U.S. Forest Service Trail Class Matrix and Design Parameters with the designated use being bicycles. The design will follow those outlined in Trail Class 3 for trail width, cross slopes and design grades. For more information concerning design, please follow the link <http://www.fs.fed.us/recreation/programs/trail-management/trail-fundamentals/> and also SWIMBA’s website which republishes the U.S. Forest Services standards at: <http://www.swimba.org/trails/mapsdocuments/>

To keep the trail aligned and prevent unnecessary construction, the route flagged on the ground is to be followed closely.

2.1.1. Trail Clearing.

(a) This work consists of clearing, grubbing, and removing rock and roots from the clearing limits of the trail. The area to be cleared within the trail corridor shall be no more than 6' on either side of the trail except in areas where enlargement fulfills recommended fire prevention prescriptions. Great care will be given to brush and other plants vital to winter habitat for mule deer and elk. SWIMBA prides itself in removing as few sage brush, bitter brush and trees as possible.

1. In areas with grass/sage brush habitat SWIMBA will follow U.S. Forest Service trail matrix design class 3 clearing standards of 60"-72".
2. Near stream crossings and other areas with heavy alder and thick brush, SWIMBA will clear the trail to 6' on either side of the center of the trail. This allows for seasonal brush growth without interfering with the 60" to 72" design standard. (d) Organic matter including leaves, duff, surface roots, and stumps shall be removed from the tread and spread not more than 4" in depth and placed so as not to obstruct drainage. Roots less than 50% exposed and over 2" inches in diameter need not be removed from the tread.

(b) Organic matter including leaves, duff, surface roots, and stumps shall be removed from the tread and spread not more than 4" inches in depth and placed so as not to obstruct drainage. Roots less than 50% exposed and over 2" inches in diameter need not be removed from the tread.

2.2.1. Tread Construction

(a) This work shall consist of the excavation and placement of all excavated material from within the trail way limits. Included shall be the excavation and embankment construction required to shape and finish the trail bed, ditches, back slopes, fill slopes, and drainage dips.

b) The trail tread shall be constructed in a manner to positively shed water and prevent channeling, ponding, and pooling at all times. SWIMBA will follow trail building best management practices and trail construction techniques of out sloping and grade reversals as the primary methods used to prevent channeling and erosion with water bars only used as a last resort. The trail design grade and cross slope will follow the Trail Class 3 standard of 3%- 10% for general grade and not to exceed 15% grade for short sections, and a cross slope 3% to 8% out slope with the occasional in slope to accommodate corners which turn into the hillside. See Appendix B Figures 1-4 for examples.

1. The first section of trail from Turner Gulch to Charcoal Gulch will have a goal of 4%-5% grade slope and general Trail Class 3 cross slope standard to provide a quality experience for beginners.
2. From Charcoal Gulch to Long Gulch and Lydle Gulch to Turner Gulch the trail will follow the general Trail Class 3 grade and cross slope standards.

(c) The Trail Class 3 bicycle design turn radius is 4' to 8', however the latest trail building techniques are moving toward 10' plus turn radius to accommodate increases in speeds and to reduce the amount of erosion and wash boarding coming into corners. SWIMBA will deviate from the Trail Class 3 standard when site lines allow for bicycles to go faster without causing trail conflicts with other users.

2.2.2 Bridges will be constructed as needed for resource protection and appropriate access following Trail Class 3 design requirements.

(a) Bridges will be constructed where needed to reduce stream channel siltation. SWIMBA will consult with Army Corp of Engineers on streams that bridges should be installed to mitigate siltation. Bridges will be built above the high water mark to avoid damage during spring runoff or flash floods.

(b) Bridges will be built to cross short ravines too steep for traditional trail building techniques. See Appendix B figures 9 and 10 as an example of bridges constructed by SWIMBA to resolve these situations.

3. Best Management Practices

3.1 Petroleum product management – SWIMBA will use vapor proof and self-closing containers not to exceed 5.3 gallons to transport petroleum products. A spill containment and spill kit will be on hand at all times. All petroleum products will be transported (boat) and stored in a secondary containment container. No more than 20 gallons of petroleum product will be on the construction site at one time.

3.2 Construction will occur during the spring and fall outside of bird nesting periods and stressful periods for wildlife.

3.3 Trail layout and construction will be done in a manner to minimize vital wintertime feed (sage brush and bitter brush) removal. Materials removed from the trail tread will be cast in such a manner to reduce the occurrence of invasive species.

3.4 Clinometers will be used to assure the trail is within the design parameters listed for trail slope. Electronic levels will be used to spot check grade cross slope.

4.1. Pre-work Conference. SWIMBA would like a pre-work conference with Government representatives before beginning work under this scoping document.

4.2. Inspection of Services. SWIMBA will work with Army Corp of Engineers representatives to ensure periodic review of trail segments built satisfy Corp requirements. Any discrepancies will be discussed and resolved before moving forward with additional trail development. SWIMBA will discuss at what intervals these reviews should take place with USACE representative.

Conclusion

SWIMBA is very excited and optimistic in submitting this trail proposal due to the unique nature of the proposed trail and potential to build a new partnership with the U.S. Army Corp of Engineers. We believe this project will be mutually beneficial to USACE, SWIMBA and the public in general based upon the benefits identified: fitting Corps mission, reducing barriers to recreation opportunities, the White House's health and getting kids outdoor initiatives, economic considerations, and increasing access for fire prevention and restoration.

This project will open the door for some very unique opportunities in the Treasure Valley. During the heat of the summer, this trail will provide a rare trail experience of enjoying a natural trail setting with direct access to water for swimming, fishing, or just cooling off and relaxing. It will also provide an opportunity for better communication on wildlife needs and recreation management. This project has

the potential to provide a model for Idaho Fish & Game education and better compliance with winter closures throughout the Wildlife Management Area.

Because of all the positive merits of this proposed trail system, we hope USACE will join with SWIMBA and bring this project to fruition. SWIMBA is committed to provide volunteers and trail leaders necessary to build the trail system and will work with USACE on maintenance issues. For more information see the following Appendix: time line (Appendix A), examples of trail building techniques (Appendix B), summary of qualifications of key staff and SWIMBA Board Contact (Appendix C).

If you have questions or comments, please contact Mike Edwards at (208) 890-7852.

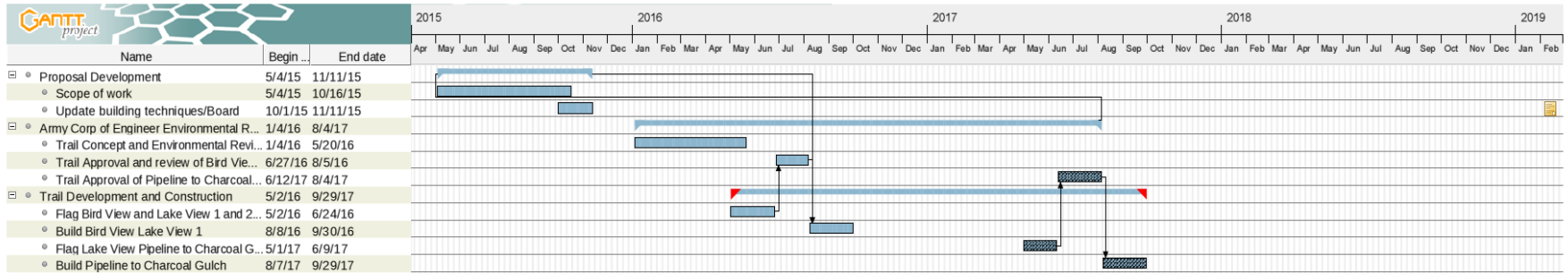
Best Regards,

Margie Rosenberg, SWIMBA President

Mike Edwards, SWIMBA Trail Coordinator

Appendix A - Project Schedule

Gantt Chart



This time line is based on several assumptions and will change based on those assumptions. The first assumption is the availability of U.S. Army Corp of Engineers staff time and the ability to review the concept and early environmental review starting early in 2016 and having conditional approval to start flagging by Spring of 2016. Typically SWIMBA works on maintenance and building trails during the spring and fall while the soils are appropriate for digging. The trail route and flagging is usually done during the hot summer months when trail building is shut down. The Lake View Trail system would get flagged early summer with the goal of submitting the information to the U.S. Army Corp of Engineers final walk through of the route and approval for fall trail building. If the approval time frames shift the trail flagging and building schedules would shift accordingly. We sincerely hope this project is approvable and we are more than willing to work with the U.S. Army Corp of Engineers to answer any questions you might have.

Appendix B - SWIMBA Building Techniques Portfolio

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Good trails start with good design and helping the volunteer trail builders understand some of the basics behind trail building. The best defense against trail erosion is providing enough grade reversals and out slope of the trail to get water to quickly move off the down hills side of the trail. While the trail leaders

use clinometers and levels for trail layout it also good to have quick tools to help volunteers double check as they work. A couple of options include placing a McLeod in the center of the tread and see if it points slightly toward the down hills side helping to identify a 3 to 7% out slope. A water bottle can also be used.



Figure 1 Using a McLeod to check out slope of the trail.



Figure 2 Using a water bottle check changes in running slope (along the tread)



Figure 3 Example of incorporating grade reversals to get water to shed off the trail and avoid erosion



Figure 4 Another picture in the Owyhee Wilson Creek areas using grade reversals to prevent erosion



Figure 5 Where grade reversals weren't incorporated into a trail sometimes it's necessary to put in water bars to help direct the water off the trail as can be seen by the SWIMBA volunteer at the Eagle Bike Park.



Figure 6 In situations where the hillside is very steep or the soils very loose a retaining wall is required to stabilize the trail.



Figure 7 Example using pressure treated logs and rebar to build a retaining wall. There is a fourth layer of logs not seen that is below the surface and anchoring the wall with 3' of rebar below.



Figure 8 This is the finished product on the BLM's Spring Creek Trail.

In riparian areas, steep terrain or short areas where a trail may not be suitable bridges are an option. SWIMBA has developed a bridge design that is fairly portable and can be transported by hikers and on bob trailers.



Figure 9 Small bridge on Willow Creek trail near Avimor built by SWIMBA and Broken Spoke Cycling Team

Sometimes it takes a keen eye to see trail opportunities. While laying out and flagging Bovine Nirvana trail at Avimor, the trail builders noticed the creek ran under a large boulder. The drop in to the creek was too steep and was going to be a long term maintenance issue. The brush was removed from around the boulder to see if it was possible to incorporate the boulder into a bridge. Metal anchors were attached to the boulder via bolts and epoxy which allowed for a design with the actual rock exposed in the middle of the trail.



Figure 10 Bridge at the intersection of Shooting Range and Bovine Nirvana at Avimor – built by SWIMBA and Broken Spoke Cycling Team

Following the bridge development, SWIMBA joined forces with the equestrian community to build an alternative route around the bridge. The equestrians were happy with the new alternative trail because it provided better views. As an added bonus there will now be less user conflict on the short steep section of Shooting Range above the bridge. The picture bottom right is the volunteers that worked on the reroute, which included hikers, runners, bikers and equestrians.



Figure 11 SWIMBA volunteers headed out to work on trails. The typical trail day includes around 25 – 30 volunteers but has been as large as 70 people. SWIMBA has enough tools and trail leaders to support a day with 100 volunteers should the need ever arise.

When laying out trail it's important to think about long term maintenance and user satisfaction. A trail shouldn't just be about getting some place but the process of getting there is very important. When laying out trails it's important to give the trail user visual changes and challenges along the way to keep it entertaining. One way of doing that is by incorporating wood and rock features. This also helps with potential user conflicts.

In areas with short sight lines (can't see very far down the trail) it is good to throw in extra corners and narrow the trail before getting to the short sight line. This helps avoid user conflicts. By incorporating narrow passages to rocks you provide the mountain biker with visual clues it's time to slow down so that there aren't sudden surprises with other trail users. It keeps it fun for all users.

It's also important to provide a variety of trails. SWIMBA has built tight twisty single track for beginner trails like Twisted Spring and Chutes and Ladders to advanced trails like Mahalo and Rock Island trail at Table Rock. This helps users separate by ability level which further reduces potential user conflicts and increases user satisfaction.



Figure 12 Example of tight rocks on Shooting Range Trail at Avimor just before a blind corner.



Figure 13 Trail users on Rock Garden Trail near table rock trying their luck on a SWIMBA built feature.



Figure 14 A long ride feature on Mahalo Trail near Bogus Basin off the Ridge Road. Notice the alternative route for equestrians and those not wanting to ride the log.



Figure 15 A good example of a little something for everyone. This log bench and ride feature was built to commemorate a consummate SWIMBA trail volunteer. Once finished there was an alternative trail off Mahalo that allowed users to come sit a spell and remember “Nick” or ride on through and giggle a little as he would have.

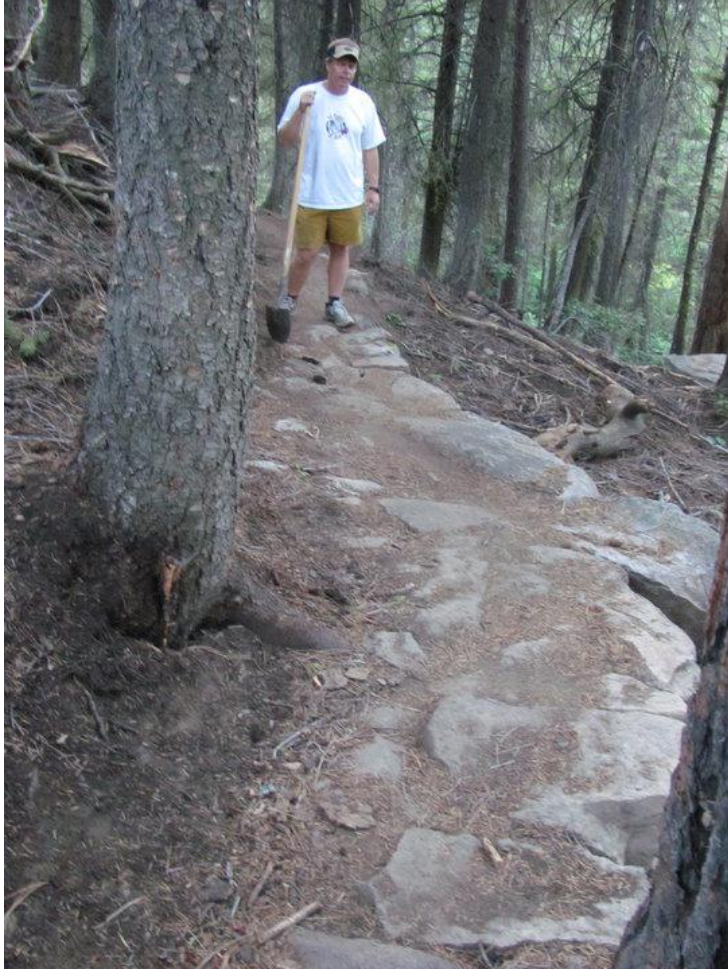


Figure 16 Beautiful Rock armoring on Mahalo Trail. While not super technical it provides the trail user with a change in tread and something to look at while preventing potential ruts from those needing to slow down.



Figure 17 A rock culvert built by SWIMBA on the East Side Trail System and a rock retaining wall around a sign done as part of a Professional Trail builders class on “Building with Rock” taken by SWIMBA trail leaders.

We all wish all trail work was building sweet new trail and developing features for trail users but every spring there is a new batch of trees that have been blown over and brush that grows amazingly fast that needs trimmed back. Some years are better than others but the one pictured below was a particularly bad one. On our spring tour of Mahalo to see what work needed done we were greeted with 25 trees that were down and in this picture was a 30' tree that fell across the trail, knocking two 24" trees down the length of the trail. It was a long day in the rain.

For obvious reasons all of SWIMBA's chainsaw crew are Forest Service Certified and always wear personal protection gear. SWIMBA takes safety seriously!



Figure 18 Clearing a mess of trees from Mahalo Trail. You know it's a big tree when it eats up a 28" chainsaw bar.

Thanks to our generous SWIMBA members, supporters and the Idaho Woman’s Charitable Foundation, SWIMBA was able to purchase a purpose built trail building machine in 2013. Since it’s purchase SWIMBA has built Spring Connector, Chutes and Ladders at Avimor, replaced an old section of trail under contract at Guerber Park in Eagle and 3 to 4 miles of the Wiwukiye Trail System near Warm Lake. This spring we have plans to build an additional 6 miles at Wiwukiye and we hope we get to build Lake View Trail!



Figure 19 First ground breaking with the new Single Track 240 on Chutes and Ladders at Avimor



Figure 20 Cutting in a new trail at Guerber Park for the City of Eagle.



Figure 21 Easy trail finishing behind the Single Track 240 with a hand tool.

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Appendix C - Summary of qualifications of Key Staff and SWIMBA Board Contact

Mike Edwards

Objective To expand and maintain the single track trail network in Idaho and have fun doing it.

Professional Experience 1993 - Department of Environmental Quality
Present Boise, Idaho

Air Quality Analyst IV - 2002 to Present Planning and Negotiation skills

Responsible for developing Idaho's *Regional Haze SI (improving visibility in Wilderness areas)*. Required heavy negotiation with industry Federal Land Managers and EPA on modeling and permitting as well as negotiated rule making for Regional Haze rule. Resulted 9,000 tpy of sulfate emission reduction from Idaho industrial sources.

Served as Co-Chair of the Western Regional Air Partnership (WRAP – Western Governors Association) Dust Forum and Implementation Work Group. Work from these two forums has resulted in changes to EPA's fugitive dust emission calculations, the development of a Dust Handbook for most fugitive dust sources, and negotiations with Federal Land Managers, EPA, Tribes and Western States on the development of Regional Haze Plans.

Manage the transportation section of the Air Quality program – including over 3 million in diesel retrofit grants.

Small Town Environmental Program – Program lead working with the City of Dietrich, Idaho to build a sewer system. Work included: identifying appropriate wastewater technologies, educating the public and recruiting local volunteer heavy equipment operators. Program was successful in using local volunteers to build Dietrich's sewer system.

Trail Design & Construction

SWIMBA Board Member and Current President 2006 - Present

Trail Planning, Design and Construction

- Responsible for working with Ridge to Rivers on construction of reroutes on Shaffer Butte and Bogus Basin trail networks.
- Designed the layout and provided construction leadership on: Mahalo, Shooting Range, Bovine Nirvana, Echo Canyon alternative, and Harlow's Hallow.
- Regularly participate and negotiate with other organizations on trail design construction and maintenance. These organizations include: Mountain Home, Emmett and Lowman U.S. Forest Service districts, Bureau of Land Management, Ridge to Rivers, Ada County Trails and Open Space Committee, Land Trust of the Treasure Valley, City of Boise, City of Eagle, Boise Foothills Conservation Advisory Committee and Avimor.

Equipment Operation

- Familiar with operating large tractors, combine, tandem axil dump truck, front end loader, large trenching machine, chain saws and 2-years operating Single Track 240
- .Forest Service Certified B chainsaw operator.

1990 University of Utah Salt Lake City, Utah
B.A., Business Major - emphasis on Commercial Recreation

Education

MARGIE G. ROSENBERG

8170 W. Beckton Lane ♦ Boise, ID 83714 ♦ (208) 850-7824

PROFESSIONAL EXPERIENCE

Jones and Swartz, Boise, ID, July, 2008 to the present.

Litigation Paralegal. Duties include:

Client Management, evidence management and discovery. Preparation of pleadings, witness coordination, working with expert witnesses, deposition and trial preparation and management of trial witnesses and trial exhibits.

Comstock and Bush, Boise, ID, 2004 to July, 2008.

Litigation Paralegal. Duties were much the same.

EDUCATION

Blue Mountain College, Pendleton, OR. Accounting & Business degree.

PERSONAL

I currently serve as Treasurer of the Southwest Idaho Mountain Biking Association. In addition I am the immediate past President. I have served on the Board of Directors since approximately 1998.

During my tenure with Southwest Idaho Mountain Biking Association I have worked on many trail building projects including the Seamans Gulch trail network, Bucktail trail in the lower Foothills, Mahalo trail and Deer Point trail in the Bogus Basin area, Rabbit Run trail at the Eagle Cycle Park and Shooting Range, Harlow's Hallow and Bovine Nirvana in the Avimor area. I also work on trail planning and design and participate in negotiations with federal, county and city agencies, and other non-governmental organizations on trail matters.

For the last 11 years I have chaired the Tour de Fat event on behalf of SWIMBA, raising awareness of cycling and funding to promote cycling and trails for all users in our area of impact.

I have served on two working groups convened by the City of Boise and Ridge to Rivers relating to recreational use of the foothills.

I lived on a ranch in the past and have experience operating tractors, a front end loader and trucks.



Scott Perryman
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SCOTT PERRYMAN

Profile

I joined SWIM BA in 2009 and have been serving on the board for the past 2 years. I was recently re-elected to the board for another 2 year term.

Experience

EQUIPMENT OPERATOR HALLIBURTON SERVICES MISSION, TX.
Maintained & operated various pieces of equipment required to conduct different types of jobs in the oil and gas industry. I also was responsible for preventative maintenance and repairs on said equipment.

BILLMAN SAND & GRAVEL MISSION, TX.

I was responsible for delivering sand and gravel to locations around the area. I would also load my truck for delivery.

GLUES BROTHERS SPRINKLER SYSTEMS MISSION, TX.

Install, maintain & repair underground sprinkler systems. I operated various walk behind and ride on trenchers used to prepare the site for installation of the system. I would then cut and join pipe, install sprinklers and cover and grade the site.

Education

Texas State University-BS Criminal Justice with emphasis on Law Enforcement 1979

Professional Trail Builders Conference Building with Mechanized Equipment and Building Better Corners Spring 2015
U.S. Forest Service Chainsaw Certified A, 2013

Skills

Front end loader, excavators, Single Track 240, backhoe, skid-steers,

Brian Kemp

Objective

To employ my trail building design and skills with a non-profit organizations and have fun doing it.

Professional Experience

- I have been working as a railroad conductor and engineer for the last 10 years. I also assist in the maintenance of the railroad tracks and help locomotive mechanic when needed.

Trail Design & Construction

- Member of a Forest Service trail crew in 2001. I received training in wilderness and ATV trail building.
- Worked extensively with the State of Idaho's SWECO 480 trail cat rebuilding and rerouting several miles of the Grass Mountain ATV Trail #163 south of Riggins.
- Part of a crew doing blowout and slide repair work and cribbing on Patrick Creek Trail near Riggins, ID.
- Complete trail rebuilding with a crew along about 3 miles of Warren Creek Trail #139 in the River of no Return Wilderness off the Main Salmon River.
- Member of a crew doing minor trail maintenance on Hulls Gulch trail in Boise Foothills
- Member of crew building Shooting Range trail north of Boise.
- Helped with construction of Mahalo trail near Bogus Basin.
- Part of a crew building Harlow Hollows multi-use trail north of Boise.
- Member of multiple other SWIMBA trail crew projects.
- U.S. Forest Service Chainsaw Certified operator

Jason Blomquist

Objective To build and maintain trail in Southwest Idaho

Professional Experience

- Current Profession: Registered Nurse, St Luke's Regional Medical Center

Trail Design Construction

- Trail Experience:
 - -National Forest Service Trail Crew: Manti La Sal National Forest, Moab, Utah
 - -Rim Tours Mountain Bike Adventures, Moab, Utah
 - -Trail Mix Advocacy Group, Moab, Utah
 - -Southwest Idaho Mountain Bike Association, Boise, Idaho
- -Trail Projects:
 - -Baby Steps, Moab, Utah
 - -Hazard County, Moab, Utah
 - -Avimor, Boise, Idaho
 - -Numerous trail maintenance projects across Utah, Colorado and Idaho
- -Equipment Experience
 - -Professional landscaping experience:
 - -Bobcat Skid steer
 - -Small front-end loader

AMANDA R. CONLEY
2201 Lemhi St. Boise, ID 83705
(208) 830-3069
rideondirt@me.com

EDUCATION

Masters of Business Administration. George Fox University. Graduated 2007.

Bachelor of Science in Management and Business Information Systems. George Fox University. Graduated 2005.

Certified Public Accountant – In progress. Expected completion of examination sections 2014.

PROFESSIONAL EXPERIENCE

Stevens-Henager College (October 2008 – current). Department Chair – Accounting.

Provide undergraduate instruction and mentoring for business and accounting students. Develop innovative presentations to clearly communicate material, create in-class, hands-on activities to reinforce learning, and facilitate collaborative work. Focus on student retention, completion and success. Specific efforts increased retention and graduation rates over 50%. Responsible for monitoring and mentoring at-risk students. Develop curriculum in accordance with accreditation requirements.

Julie Babcock-Hyde, CPA, LLP (December 2012 – current). Accountant.

Perform various accounting tasks for clients such as tax return preparation, bookkeeping, reconciling, A/R, A/P, payroll.

Ten Mile Creek Farms. (June 1999 – current). Accountant.

Perform accounting and bookkeeping functions for several organizations including managing \$1.5 million of residential real estate for property management company. Responsible for quarterly and annual taxes, AR/AP, general ledger, payroll, financial statement preparation and analysis.

B.O.B Trailers, Inc. (March 2008 – May 2009). Purchasing Manager.

Purchasing manager responsible for analyzing and responding to future product needs. Required examination of master budget, sales forecasts, production capacities and warehouse capacity. Analysis performed extensively using Microsoft Excel.

Rockitecture Stoneworks, LLC (June 2006 – February 2008). Chief Financial Officer.

Perform essential accounting functions including A/R, A/P, payroll, quarterly federal and state tax forms, annual K-1s, budget preparation and analysis. Developed business and marketing plan. Responsible for website development and maintenance including search engine optimization.

VOLUNTEER EXPERIENCE

Volunteer Income Tax Assistance Program Site Coordinator – 2009 – 2012.

Planned and coordinated VITA program for 2010, 2011 and 2012 tax seasons including selection, training and auditing of volunteers. Responsible for cross-functional team development and interdepartmental communication. Certified by the Internal Revenue Service as a Site Coordinator; passed the Basic, Intermediate, Advanced and Military certification examinations. This is an on-going project requiring approximately 6 months and over 300 hours of volunteer management per tax season.

Bogus Basin Ski Patrol – 2011 – current

Volunteer Ski Patroller. CPR and Outdoor Emergency Care Course completed in 2011. NSP# 244277

Southwest Idaho Mountain Bike Association – 2010 – current

Board Member and bookkeeper. Responsible for monthly bookkeeping, annual preparation of IRS Form 990, state sales tax. Also involved in trail building and maintenance activities.

Idaho Green Expo – 2008, 2010, 2011

Merchandise sales, booth setup, greeting guests

Current List of Board Members

Current SWIMBA Board Members – as of October 2015 elections

Name/Title	E-mail
• Margie Rosenberg – President	maggie.mayz@yahoo.com
• Scott Perryman - Vice President	sperryman74@gmail.com
• Mandi Davis Conley - Treasurer	rideondirt@me.com
• Mark Tate – Secretary	mark.tate@gmail.com
• Mike Edwards – Trails	mikeshaneedwards@gmail.com
• Dennis Swift - Education	sluggish1@gmail.com
• Almer Casile – FLM relations	Casile.almer@gmail.com
• Jeff Hall - Website	jeff@thenewblackstudios.com
• Justin Charters - Group Rides	cure540@icloud.com
• Melanie Yakemovic – Communications	myakemovic@gmail.com
• Roger Malinowski – Local Government	rockdodge@cableone.net