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From: **Scott Perkins** <scottperkins338@yahoo.com>

Date: Thu, Aug 19, 2021 at 7:12 PM

Subject: Re: Road Committee Report 21 Aug 2021

To: John Gunn <jgunn6193@gmail.com>, Trey Wilson <nwilson3215@gmail.com>

CC: Scott Perkins <scottperkins338@yahoo.com>

01 Jun 2021, Mallet Excavating has completed cleaning the drainage ditch along the section of Elk Valley Road from Beelers pond to the Y intersection of Elk Valley Road/Elk Valley North/Elk Valley South. John Gunn and Scott Perkins directed traffic during the 1-1/2 hour time frame to complete the cleaning of the drainage ditch.

07 Jun 2021, Rampart Surveying completed the survey establishing the final grade of the inner and outer section of Elk Valley Road from Beilers pond to the Y intersection of EVR/EVN/EVS to establish the 2% grade directing all rainfall and snow melt runoff from the existing center-crown drainage to the drainage culverts along the inside of the subject section EVR.

03-07 June 2021, in conjunction with re-grading the subject section of EVR, Mallet Excavating completed the annual cleaning of drainage ditches and shaping of the entire road system within the EVE HOA.

09 June 2021, Mallet Excavating received the 2 loads of road base material (50 tons) from Mule Creek Sand and Gravel owed the EVE HOA as part of the sale of the AC road grader. Mallet hauled an additional 90 tons of County-spec road base to the section of EVR rebuilt to correct the drainage issue.

During the 3-week delay to pre-pay 100% of the cost estimate required by Envirotech to schedule the application of the MgCl, EVE experienced a significant 3/4"/35min rain fall event. The down pour caused native gravels on the slopes above the road to erode and fill the drainage ditches on the regraded sections of EVR and ERS.

Matt Cerace used his skid loader with small backhoe attachment to dig out the sediment sumps filled by native gravels from Fishers lot above Elk Valley Road. Kevin McGrath and Sandy Vasser helped direct traffic, John Bradley and I used the HOA's skid loader to place the large rock in the sediment sumps.

02 Jul, Mallet Excavation cleaned the ditches the morning that the Envirotech trucks arrived on location.

02 Jul, Envirotech applied the polymer-based Magnesium Chloride along sections of the road identified by the 2019 and 2021 EVE Road Committee totaling 1-mile.

Following two severe rain fall events two weeks after the MgCl was applied, the resulting downpours resulted in significant eroding of the slopes above the drainage ditches on the repaired section of EVR and through the Big Cut above Galbraiths drive to Cerace's lot. The native gravels completely filled the drainage ditches. The drainage ditches from the two concrete ditches below Atwater's lot to where EVR flattens out above O'Nales private road was eroded down the round river rock that was placed years ago. The drainage ditch below Dead Mans curve east of Beelers house to the pond will require additional rip-rap rock.

Mallet Excavating will remove the native gravels from the drainage ditches in the two sections of roads identified above and place 8" to 1-1/2' sized rip-rap rock in the drainage ditches before snow starts falling. The additional rock material will slow the rivers of water and sediment flow during heavy rain fall events.

Now that the road system is correctly graded to handle rain fall and snow melt run-off, native grass matting, heavy wire calf/hog panels/sprayed concrete will be required to be placed on the sections of EVR above the repaired section of EVR and ERS as noted above to minimize the erosion of native gravels into the drainage ditches that fills the drainage ditches and undermines the existing road.

Installing the grass matting on the slopes through the Big Cut can be accomplished with EVE volunteers.

Whatever material (sprayed concrete, hog/calf panels overlain with grass matting) is Not the type of a job for EVE volunteers. I suggest that whoever comprises the EVE 2022 Road Committee, that they contract a licensed landscaping company with the proper personnel and equipment to place the erosion control materials.

It further suggested that the entire road system be applied with MgCl to minimize the amount of dust, and annual costs for road base material and labor/equipment to maintain the road system.

Scott Perkins
2019, 2021 Road Committee Chair