

Minutes of Business Meeting  
June 10, 2015 – 2:00 p.m.  
Fergus County Commissioners  
712 W. Main St., Suite 210  
Lewistown, MT 59457

Present: Presiding Officer Sandy Youngbauer, Commissioner Ross Butcher, and Rana J. Wichman, Clerk & Recorder. Commissioner Carl Seilstad was absent. Public present: See attached list.

**CALL TO ORDER:**

Presiding Officer Youngbauer called the meeting to order at 2:00 p.m

**APPROVAL OF MINUTES:**

Presiding Officer Youngbauer indicated if there were no alterations or corrections to the May 26, 2015, minutes they would stand approved as distributed. They will be on file with the Clerk and Recorder and on the Fergus County Website.

**PUBLIC HEARING:** None

**PUBLIC COMMENT ON AGENDA ITEMS:** None

**ANNOUNCEMENTS & REPORTS:**

Positions on the Grass Range Rural Fire Board will be filled at the June 17, 2015 meeting.

**BID OPENINGS:** None

**DISCUSSION/ACTION ITEMS:**

- 1) Discussion with USAF and FHWA regarding use of calcium chloride on roads: Keith Wong with the FHWA opened the discussion and stated that they are entering the final design for 2016 in regard to using calcium chloride on gravel roads. Brad Neitzke did a PowerPoint presentation on this. Mr. Wong indicated they need a decision soon on how to proceed with roads in Fergus County. Commissioner Youngbauer stated a decision will be made at the June 17, 2015 meeting.
- 2) Approval of June 10, 2015 Claims: Commissioner Butcher moved to approve the June 10, 2015 claims. Commissioner Youngbauer seconded. Passed unanimously.
- 3) Resolution for Justice Court to Receive and Spend Board of Crime Control Grant: Commissioner Butcher moved to adopt the Resolution for Justice Court to Receive and Spend the Board of Crime Control Grant. Commissioner Youngbauer seconded. Passed unanimously.
- 4) Resolution for Family Planning and CMHD – Public to Receive and Spend Additional Cancer Screening Grant Funds: Commissioner Butcher moved to adopt the Resolution for Family Planning and CMHD – Public to Receive and Spend Additional Cancer Screening Grant Funds. Commissioner Youngbauer seconded. Passed unanimously.
- 5) Resolution for CMHD – Public to Receive and Spend Public Health System Improvement Grant Funds: Commissioner Butcher moved to adopt the Resolution for CMHD – Public to Receive and Spend Public Health System Improvement Grant Funds. Commissioner Youngbauer seconded. Passed unanimously.
- 6) Town of Grass Range & DES – Memorandum of Understanding (MOU): Commissioner Butcher moved to approve the Town of Grass Range & Des – Memorandum of Understanding. Commissioner Youngbauer seconded. Passed unanimously.
- 7) Town of Moore & DES – Memorandum of Understanding (MOU): Commissioner Butcher moved to approve the Town of Moore & Des – Memorandum of Understanding. Commissioner Youngbauer seconded. Passed unanimously.

**APPOINTMENTS:**

- 1) Moore Rural Fire: Commissioner Butcher moved to appoint Steve Hertel and Keith Weinheimer to the Moore Rural Fire District Board. Commissioner Youngbauer seconded. Passed unanimously.
- 2) Lewistown Rural Fire: Commissioner Butcher moved to appoint Jay Henderson and David Phifer to the Lewistown Rural Fire District Board. Commissioner Youngbauer seconded. Passed unanimously.
- 3) Coffee Creek Rural Fire: Commissioner Butcher moved to appoint Lon Nemece and Robert Grubb to the Coffee Creek Rural Fire District Board. Commissioner Youngbauer seconded. Passed unanimously.

**PUBLIC INPUT:**

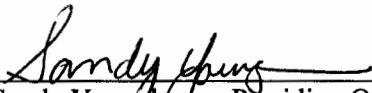
Tom Wojtowick asked about the County’s plans for using calcium chloride. Commissioner Youngbauer indicated it will be decided at the June 17, 2015 meeting.

**OTHER BUSINESS:** None

**NEXT MEETING DATES:**

June 17, 2015 Wednesday – 5:15 p.m.	Regular Monthly Meeting	Fergus County Commissioners 712 W. Main St., Suite 210 Lewistown, MT 59457
June 25, 2015 Thursday – 2:00 p.m.	Business Meeting	Fergus County Commissioners 712 W Main St., Suite 210 Lewistown, MT 59457
July 10, 2015 Friday – 2:00 p.m.	Business Meeting	Fergus County Commissioners 712 W. Main St., Suite 210 Lewistown, MT 59457

**FERGUS COUNTY COMMISSIONERS**

  
 \_\_\_\_\_  
 Sandy Youngbauer, Presiding Officer

  
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 Carl Seilstad, Commissioner

  
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 Ross Butcher, Commissioner

Attest:

  
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 Rana J. Wichman, Clerk & Recorder

# STABILIZATION OF AGGREGATE ROADS WITH CALCIUM CHLORIDE - FACT SHEET

- Calcium Chloride ( $\text{CaCl}_2$ ) is a salt that attracts moisture from the air and surroundings. It can be found in a solid or liquid form. The solid form is a flake or pellet and is purer than liquid products.
- $\text{CaCl}_2$  has the ability to draw moisture from surroundings which stabilizes gravel roads. The  $\text{CaCl}_2$  is mixed into a gravel road and the salt has an affinity for moisture. This moisture keeps the roadway damp. This has the following benefits:
  - **Reduced dusting.**  $\text{CaCl}_2$  draws in moisture keeping the aggregate water bound and limiting the loss of fine material.
  - **Reduction of rock source depletion.** Keeping the fine material in the aggregate matrix mitigates loss of coarser aggregate.
  - **Reduced maintenance costs.** Reduced costs related to maintenance activities by reducing required maintenance cycles. By keeping the fine and coarse material in the aggregate road, surface distresses such as washboards, ruts, and potholes can be minimized and less maintenance is required.
- Potential savings of \$3,300 per mile per year<sup>i</sup> may be realized with calcium chloride treatment due to reduced maintenance and less aggregate loss (Monlux and Mitchell 2006). These savings are based on a study conducted by the Forest Service on 12 projects in Oregon, Washington, Idaho, and Montana. Actual savings will vary depending on specific County labor costs, equipment costs, and the level of reduced maintenance activities.
- Keys to successful implementation of calcium chloride to aggregate roads:
  - $\text{CaCl}_2$  must be applied to well graded aggregate with plenty of fines. The fine material must be a clay so that the  $\text{CaCl}_2$  is bound within the aggregate structure. Otherwise, if the material is coarse, the  $\text{CaCl}_2$  will be flushed out in a short time period (1-3 years).
  - Select an application rate appropriate for the local area. For the missile base roads, somewhere between 1.5% and 2.0% is a good rate that provides the properties desired without creating an unstable, messy road.
  - Limit the amount of fine material. Too many fines will create an unstable road as the  $\text{CaCl}_2$  draws in water which can lead to rutting and other surface distresses.
  - Add mixing water at the point of rotary mixing. Adding mix water behind the mixer can lead to inconsistent moisture contents in the aggregate structure and possible localized areas of instability.

- Place CaCl<sub>2</sub> when the forecast doesn't include rain within 24 hours. Additional water could destabilize the aggregate structure.
- Compact the aggregate after mixing. Compaction seals the CaCl<sub>2</sub> within the aggregate structure.
- Provide a 4% crown to ensure drainage, keeping runoff from pooling on the roadway.

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<sup>1</sup> Monlux, Steve, PE, and Michael R., PE Mitchell. Surface-Aggregate Stabilization with Chloride Materials. Washington DC: US Department of Agriculture, Forest Service, National Technology and Development Program, 2006.

