



Note that a Drainage Report is not required for the review of the Special Use application. Comments have been provided but the drainage report should be submitted with the Site Development application.

October 24, 2018

Add PCD File No. AL1829

*El Paso County
Development Services
2880 International Circle
Colorado Springs, CO 80910*

Drainage Compliance Letter

To whom it may concern,

Revise drainage report to address items listed in DCM Chapter 4, sections 4.3 & 4.4. Also include the evaluation of the 4 step process per ECM Section I.7.2.

Project Description

The proposed Hale Sand Pit Expansion is located on a 150-acre tract of land and currently contains a 9.9-acre sand mining area located at the southwest corner of the property. The proposed expansion will permit an additional 52.5 acres of land for sand mining. The proposed expansion will be performed in 10-acre maximum blocks. Each block will be disturbed, mined, and then reclaimed before mining activities begin in the next block.

Note that FEMA has updated the FIRM map numbers and effective date (12/7/2018). Please update accordingly.

Historical Drainage Pattern

The 150-acre site is traversed from west to east by Brackett Creek, a dry creek bed that flows temporarily during storm events. Per FEMA Floodplain Map Number 08041C0600 F panel 24, Brackett Creek is designated as Zone A, subject to flooding during the 100-year storm event. Runoff from the site runs towards the creek. From the south portion of the site (where the 40-acre mining area will be) flows generally travel to the north and east at approximately 1.0%. From the north portion of the site (where the 12.5-acre mining area will be) flows generally travel south at approximately 1.0%. The existing site consists of undeveloped grassland.

Mining activities

When mining activities commence, the topsoil from the site will be used to create an earthen berm and diversion dike along the Brackett Creek Floodplain boundary. The diversion dike will transport runoff to a proposed sediment basin that will detain, allow for desilting, and release at historical rates into Brackett Creek. This will reduce stormwater sediment pollution to the creek. A Stormwater Management Report and Grading and Erosion Control Plans will be in place to identify necessary best management practices.

Detention and Discharge

A temporary sediment basin will be installed at the east end of the 40-acre mining area. It was sized using UDFCD Urban Storm Drainage Criteria Manual Volume 3, Detail SC-7 (See GEC plans for sediment basin sizing). Per Detail SC-7, the basin will have two riser pipes that will discharge to a rip rap rundown into Brackett Creek.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



John Heiberger, P.E.
Project Manager / Associate

Provide standard El Paso County
Signature Block