

"Safety as a Value"

September 22, 2021

State of Colorado Division of Reclamation, Mining & Safety 1313 Sherman Street, Room 215 Denver, Colorado 80203-2273 Attn: Janet Binns, Environmental Protection Specialist III

Re: King II Mine Pond Annual Inspection 3rd Quarter 2021

Dear Ms. Binns,

An inspection of the pond at the King II mine was performed on September 16, 2021 by Stoner Engineering and Surveying for the 2021 annual inspection.

Please find the report attached.

Please call Joel Riggins at (970) 385-4528 x 6540 if you have any questions or comments.

Sincerely,

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Joel Riggins GCC Energy, LLC



Engineering, Testing & Surveying

Date: September 21, 2021

- To: Jordan McCourt Project Coordinator GCC Energy, LLC 6473 County Road 120 Hesperus, CO 81326 (970) 385-4528
- From: Ryan Griglak, P.E. Project Manager Stoner Engineering & Surveying



Re: King Coal II - Annual Water Quality Improvements Inspection

On September 16, 2020, Ryan Griglak, P.E. visited the GCC Energy, LLC King Coal II site to conduct the annual inspection of the water quality pond installed to prevent contaminated storm water runoff from escaping the site in events smaller than the 100-year storm event.

The water quality pond was mostly dry at the time of the inspection. The elevation at the bottom of the pond was estimated to be at an elevation of 7227.3, approximately 12-inches below the concrete of the outlet structure. The sedimentation level at the pond outlet and the sedimentation gage have only risen slightly since the 2020 inspection (see Pic. 1). Removal of sediment from the ponds was anticipated this year and is currently ongoing at the King I site. The sediment was approximately one (1) foot below the cleanout level during the 2018 inspection, eight (8) inches below the cleanout level during the 2019 inspection, four (4) inches below the cleanout level during the 2020 inspection and only slightly less for the detention pond during the current inspection (see Pic. 2). This represents an elevation of 7229. The 60% cleanout level is at an elevation of 7229.25. The current sediment level in the detention pond is less than the allowable 1.57 [ac-ft] of sediment which is the 60% cleanout level as shown in the Sediment Pond Stage Discharge Curve prepared by EIS Environmental & Engineering Consulting dated 12/18/08. It is anticipated that the excess sediment will be removed from the detention pond once the King I sediment ponds have been completed.

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The vegetation both inside and out of the pond is well established to minimize the erosion impacts of storm runoff. The outlet structure shows no signs of damage and was functioning as designed at the time of the inspection. The water quality pond appears to be in generally good condition. There were no signs of weakness or distress to either the outlet structure or the embankment material though the vegetative cover made observation extremely difficult. The water quality pond has the storage capacity to function as designed.

The east clear water ditch, the lower west clear water ditch (east of the driveway access) and the main drainage ditch (combined clear water ditches) were found to be in generally good condition and clean of debris (see Pic. 2). The east clear water ditch should have the weeds removed from the portion of the channel upstream from the air-jig as the channel is section is overgrown (see Pic. 3). There was some limited sedimentation of the clear water ditch west of the scale house. If additional sedimentation occurs at this location, it will require maintenance. All ditches should be inspected and repaired as necessary, especially after storm events.

The culvert pipes on the site were in generally good condition overall. The culvert pipes should be monitored after storm events and cleaned out in the event that sedimentation occurs or debris buildup at the culvert inlets or outlets is observed.

The drainage features for the King II site are functioning as designed and are being maintained in accordance with the approved plans.

Please let me know if you have any additional questions or concerns in regards to the issues discussed in this report.

Sincerely,

Ryan M. Griglak, P.E. Project Manager

Stoner Engineering & Surveying

Engineering, Testing & Surveying



Pic. 1 – Detention Pond outlet in good condition.



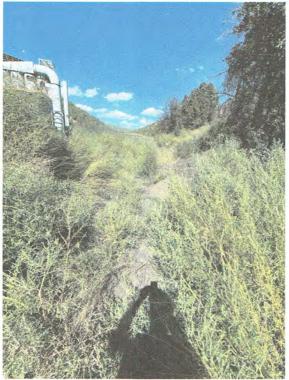
Pic. 2 - Sedimentation gage in pond.



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Pic. 3 East clear water ditch downstream from air-jig.



Pic. 4 –East clear water ditch upstream from air-jig.

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