

Legislation Text

File #: REP 13-835, Version: 1

Receive a demonstration on a pilot study to determine the feasibility of developing a 3D photo real model of the Seco Creek Sinkhole.

RECOMMENDED MOTION:

None. This item is for informational purposes only.

SUMMARY:

The Edwards Aquifer Authority engaged Mr. Benjy Von Cramon in a pilot study to determine the feasibility of developing a 3D photo real model of the Seco Creek Sinkhole. Mr. Von Cramon worked with EAA staff to collect a series of high resolution photographs using a high intensity strobe and digital camera system in November 2016. The photos were “stitched” together using 3D software to create the photo real model. The lower portion of the entrance section of the cave was photographed along with some of the downstream portions of the cave.

Geary Schindel and Benjy Von Cramon will discuss the process for development of the tool and demonstrate the model.

The model has application as an educational tool for the public to visualize how recharge occurs in the Edwards Aquifer and to present geologic and hydrologic concepts. The 3D modeling process can also be used to study sediment transport into the cave and geologic controls affecting the formation of conduits in the aquifer. The high intensity strobe and digital model creates a tool to allow detailed evaluation of the cave which could not occur with current cave lighting systems. The pilot study showed that the process is feasible and offers a unique look into the aquifer.

M/WBE PARTICIPATION:

This agenda item does not involve the procurement of goods or services by the EAA and, therefore, this section is not applicable.

STRATEGIC PLAN REFERENCE:

This agenda item supports the EAA's policy direction as set forth in the EAA 2016-20 Strategic Plan: Goal E. Conduct Research that Enhances Understanding and Effective Management of the Aquifer

FISCAL IMPACT:

None.