Task Order 2:

1. Obtain the rating curve for the Missouri River at Leavenworth Kansas (USGS Gaging Station 06820475). Plot the rating curve on log-log plot where the vertical axis is the stage in the river. Obtain (or approximate) a cross-section of the river at or near the gage. Plot the cross section.
2. Obtain the rating curve for the Colorado River at Grand Junction CO, near or downstream of the Gunnison River. Plot the rating curve on log-log plot where the vertical axis is the stage in the river. Obtain (or approximate) a cross-section of the river at or near the gage. Plot the cross section.
3. Obtain the flow data for the Missouri River at Leavenworth Kansas (USGS Gaging Station 06820475). Use the data to construct a flow-duration curve for the river.
4. Obtain the flow data for the Colorado River at Grand Junction CO, near or downstream of the Gunnison River. Use the data to construct a flow-duration curve for the river.
5. Determine the median discharge in the Missouri river based on the flow duration curve, and the median discharge in the Colorado river based on its flow duration curve.
6. Estimate the reduction in stage at the median discharge that the diversion will cause in the Missouri river.
7. Estimate the increase in stage at the median discharge that the diversion will cause in the Colorado River.
8. Plot on the two cross sections the median stage and the added/reduced stage caused by the diversion for the contributing and receiving streams.

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