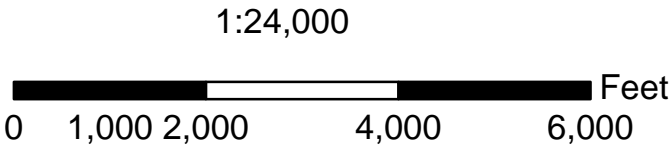


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
3	Wakarusa River_1_59051	32,432	824.0	812.0	3.1	2,676	637	1.6
3_TRIB	DDG- 0064_1_1769	34,201	824.0	816.5	3.1	- 32	368	- 0.1
2	Wakarusa River_1_55402	36,081	819.2	806.4	3.6	2,451	136	2.5
1	Wakarusa River_1_4363	87,120	790.4	786.4	6.0	284	62	1.6

\* Travel time is measured from the initiation of breach formation to the time the breach wave arrives at the section.

The inundation area was developed based on a breach with the water surface at the higher of the auxiliary spillway elevation or 100-year, 6-hour storm event. Cross sections were developed using 2-meter LIDAR data.



Attachment 1:  
Inundation Area  
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Date	Designed	Drawn	Checked	Approved
06/2009	EWR	DMM	JW	AGB
07/06/2009				
08/2009				
09/2009				

DDG-0163 FRD31 NID-KS02258  
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/06/2009
Sheet 1 of 3