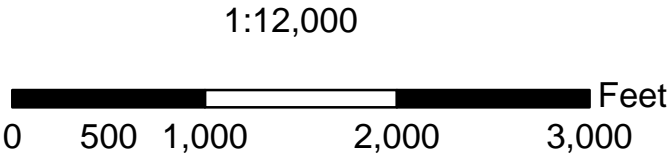


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0055_1_2923	0	816.4	814.6	2.3	4,034	834	1.9
11	DDG- 0055_1_1742	1,180	809.8	802.3	2.5	3,022	750	1.4
10	DDG- 0055_1_744	2,178	809.2	800.8	2.5	2,941	500	2.3
9	DDG- 0055_1_538	2,385	806.6	798.6	2.5	2,935	68	10.3

The breach flow is contained within the banks of the Wakarusa River

* 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 Top of Dam elevation. Cross Sections were developed using 2-meter LIDAR data.



Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE



DDG-0055 NID-KS00568
DOUGLAS COUNTY, KANSAS

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

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