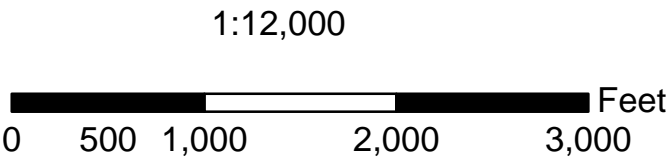


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0102_1_5026	0	849.3	839.7	0.2	5,724	274	5.3
22	DDG- 0102_1_3744	1,282	841.3	836.9	0.2	4,750	401	4.8
21	DDG- 0102_1_2869	2,157	832.1	823.3	0.3	4,334	391	4.5
20	DDG- 0102_1_1947	3,079	825.5	817.9	0.3	3,844	508	3.1
19	DDG- 0102_1_810	4,216	818.7	814.2	0.4	3,423	903	4.2

The breach flow is contained within the banks of the Coal Creek and Wakarusa River below section 19

* 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

Date	06/20/09
Designed	EWR
Drawn	DMM
Checked	JW
Approved	AGB

DDG-0102 NID-KS00580
DOUGLAS COUNTY, KANSAS



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