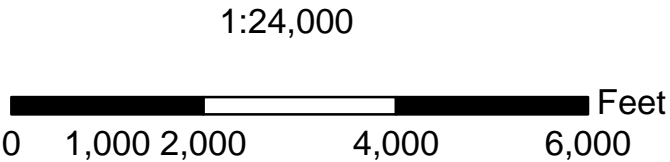


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0247_1_1628	0	856.8	841.9	0.7	23,908	869	5.2
29	DDG- 0247_1_1088	541	854.8	840.6	0.7	23,106	1,018	3.8
28	DDG- 0247_1_568	1,061	852.1	839.4	0.7	22,762	1,015	6.2
27	Coal Creek_2_22427	1,628	851.0	836.4	0.8	19,559	1,936	2.2
27_TRIB	Coal Creek_3_26119	5,320	851.1	843.5	0.8	4	64	0.0
26	Coal Creek_2_18863	5,193	845.2	831.2	1.1	17,688	1,524	2.7
25	Coal Creek_2_15319	8,737	838.5	828.9	1.4	15,332	2,814	1.8
24	Coal Creek_2_10982	13,074	832.6	818.3	1.8	13,424	2,340	2.1
23	Coal Creek_2_9067	14,988	828.6	816.9	2.1	12,576	2,141	2.3
22_TRIB	Coal Creek Trib_1_1118	18,049	827.6	819.2	2.2	12	41	0.1
22	Coal Creek_1_7125	16,931	827.6	814.5	2.2	11,900	4,095	1.4
21	Coal Creek_1_2950	21,106	824.5	812.4	2.6	10,696	2,551	1.0
20	Coal Creek_1_2813	21,242	822.4	813.1	2.7	10,592	2,578	1.7
19	Coal Creek_1_1417	22,639	820.5	810.9	2.9	9,650	2,027	2.1
18	Wakarusa River_3_49315	24,056	820.1	807.8	3.1	9,090	2,985	1.3
18_TRIB	DDG- 0102_1_1947	26,003	820.1	817.9	3.1	10	18	0.5

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

DDG-0247 FRD30 NID-KS04097
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/06/2009
Sheet 1 of 2