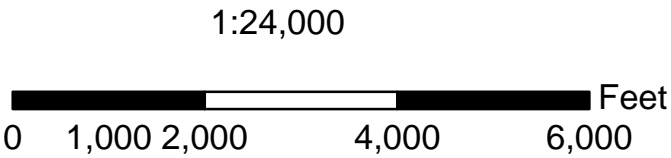


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
13	Washington Creek_1_19412	15,551	847.3	836.0	1.7	1,009	103	2.1
12	Washington Creek_1_17171	17,792	845.3	835.3	1.8	982	61	3.0
11	Washington Creek_1_13211	21,752	841.2	831.3	2.3	882	58	2.4
10	Washington Creek_1_10053	24,910	839.2	828.0	2.6	811	66	2.0
9	Washington Creek_1_8361	26,602	838.4	829.3	2.8	787	60	2.0
8	Washington Creek_1_7016	27,947	837.7	828.0	2.9	777	61	1.8
7	Washington Creek_1_5791	29,172	837.0	826.6	2.9	770	73	2.3
6	Wakarusa River_1_22847	34,963	828.3	822.4	3.0	725	49	3.8
6-TRIB	Washington Cr Tr_2_1496	36,459	828.3	823.4	3.0	- 4	37	0.0
5	Wakarusa River_1_20931	36,878	826.4	820.1	3.0	714	53	3.1
4	Wakarusa River_1_17972	39,838	823.2	816.0	3.0	579	95	1.2
3	Wakarusa River_1_12849	44,961	820.7	814.2	3.0	289	42	1.4
2	Wakarusa River_1_10484	47,326	818.3	814.7	3.0	229	55	1.5
1	Wakarusa River_1_5056	52,753	809.9	806.9	3.0	181	55	1.4

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



Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Designed	EWR	Date	06/2009
Drawn	DMM	Date	07/15/2009
Checked	JW	Date	08/2009
Approved	AGB	Date	08/2009

DDG-0197 NID-KS00030
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/15/2009
Sheet 2 of 2