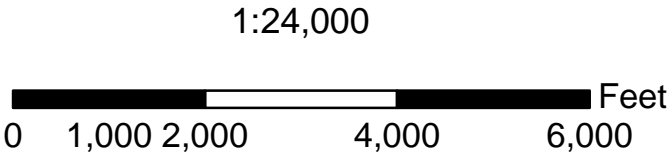


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	16280	0	1044.3	1038.0	0.3	11,001	268	8.6
9	15662	617	1030.9	1021.7	0.3	10,655	210	8.8
8	14421	1,859	1013.0	1005.4	0.3	10,289	222	8.8
7	13678	2,602	1004.6	993.1	0.3	10,103	237	7.8
6	13293	2,987	1001.2	991.8	0.3	9,935	257	7.4
5	11978	4,302	987.5	977.6	0.4	9,633	211	7.8
4	11310	4,970	980.5	968.9	0.4	9,483	222	7.9
3	8637	7,643	961.9	951.4	0.5	6,771	300	2.9
2	6481	9,798	956.9	950.9	0.6	5,568	404	2.8
1	4250	12,030	954.0	951.3	0.8	4,410	1,303	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 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	06/20/09
Drawn	DMM	Date	07/13/2009
Checked	JW	Date	06/20/09
Approved	AGB	Date	06/20/09

DDG-0257 NID-KS04905  
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
7/13/2009
Sheet 1 of 1