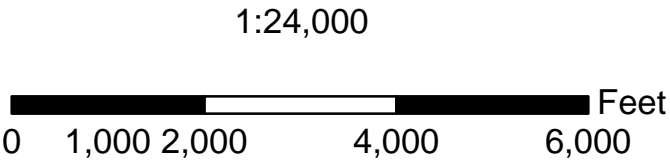


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	18822	0	1073.1	1068.5	0.3	3,277	288	4.7
14	18368	454	1068.9	1064.3	0.3	3,127	262	5.0
13	17976	846	1063.9	1060.1	0.3	3,067	243	6.0
12	17454	1,368	1055.6	1050.6	0.3	3,025	176	7.0
11	17139	1,683	1053.8	1044.2	0.5	2,056	448	0.9
10	16363	2,459	1053.7	1047.6	0.5	1,971	763	0.6
9	16280	2,542	1040.8	1038.0	0.5	1,971	233	4.7
8	15662	3,159	1026.4	1021.7	0.5	1,967	151	5.1
7	14421	4,401	1009.3	1005.4	0.5	1,956	186	5.1
6	13678	5,144	1000.3	993.1	0.6	1,946	166	5.5
5	13293	5,529	996.7	991.8	0.6	1,940	163	5.0
4	11978	6,844	983.1	977.6	0.6	1,922	167	4.6
3	11310	7,512	976.0	968.9	0.7	1,914	135	5.5
2	8637	10,185	956.1	951.4	0.9	1,554	220	1.8
1	6481	12,341	954.0	950.9	1.1	1,221	378	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

Date	Designed	Drawn	Checked	Approved
06/20/09	EWR	DMM	JW	AGB
07/13/2009				
08/20/09				
08/20/09				

DDG-0289 NID-KS07724
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/13/2009
Sheet 1 of 1