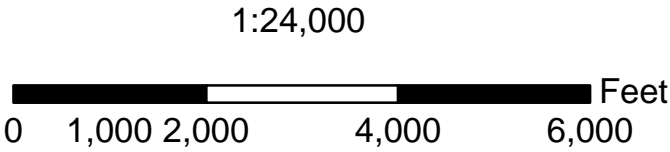


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0064_1_18790	0	1017.7	1008.8	0.2	11,030	201	12.3
15	DDG- 0064_1_17004	1,786	972.1	964.1	0.2	10,150	193	10.6
14	DDG- 0064_1_14240	4,550	916.5	905.1	0.3	9,149	257	8.2
13	DDG- 0064_1_12419	6,371	891.6	885.8	0.3	7,901	836	4.7
12	DDG- 0064_1_10490	8,300	867.7	858.3	0.4	5,701	1,002	3.5
11	DDG- 0064_1_7562	11,228	844.0	835.3	0.7	3,697	660	1.9
10	DDG- 0064_1_7512	11,278	843.0	834.8	0.7	3,689	509	7.0
9	DDG- 0064_1_7457	11,333	841.7	834.4	0.7	3,659	557	3.5
8	DDG- 0064_1_6500	12,290	836.3	830.2	0.8	3,243	758	2.2
7	DDG- 0064_1_4853	13,937	830.8	824.9	1.0	2,321	797	2.0
6	DDG- 0064_1_3376	15,414	827.2	822.0	1.2	1,569	1,108	0.8
5	DDG- 0064_1_2354	16,436	825.9	818.6	1.3	1,359	382	2.2
4	DDG- 0064_1_2013	16,777	825.3	817.4	1.6	1,006	181	1.8
3	DDG- 0064_1_1769	17,021	823.5	816.5	1.6	946	294	1.6
2	'akarusa River_1_590E	18,790	813.7	806.4	2.3	770	84	2.0
1	'akarusa River_1_554C	30,242	804.8	798.6	3.8	444	64	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  
06/2009

Designed  
EWR

Date  
07/06/2009

Drawn  
DMM

Date  
06/2009

Checked  
JW

Date  
06/2009

Approved  
AGB

DDG-0064

NID-KS00570

DOUGLAS COUNTY, KANSAS

NRCS

Natural Resources Conservation Service  
United States Department of Agriculture

File Name

Drawing Name

07/06/2009

Sheet 1 of 1