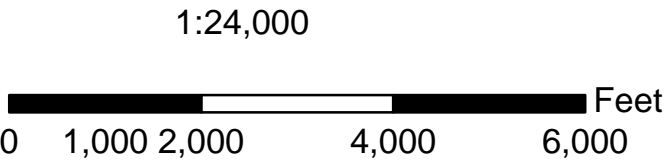


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0154_1_7832	0	1034.7	1028.5	0.1	12,122	353	10.8
13	DDG- 0154_1_6396	1,436	986.8	980.7	0.2	14,638	556	7.2
12	DDG- 0154_1_4930	2,903	958.6	948.2	0.2	12,019	178	12.2
11	DDG- 0154_1_3951	3,882	938.9	930.1	0.2	11,559	227	9.6
10	DDG- 0154_1_3206	4,626	928.4	920.5	0.2	10,910	190	10.0
9	DDG- 0154_1_1468	6,365	906.4	895.1	0.3	9,614	147	9.3
8	DDG- 0154_1_687	7,146	896.9	887.7	0.3	9,274	197	10.2
7	Wakarusa River_1_47793	7,832	890.5	878.9	0.3	4,797	304	2.8
6	Wakarusa River_1_45324	10,300	887.1	876.9	0.5	2,459	104	3.4
5	Wakarusa River_1_43681	11,944	885.6	877.0	0.6	2,020	108	2.5
4	Wakarusa River_1_42063	13,562	884.4	876.3	0.7	1,705	132	2.1
3	Wakarusa River_1_39912	15,713	883.2	875.6	0.8	1,408	145	1.8
2	Wakarusa River_1_38306	17,319	882.5	876.3	1.0	1,212	294	1.3
1	Wakarusa River_1_33632	21,993	879.6	875.0	1.5	1,025	449	1.1
7_TRIB	Rock Creek_1_2742	14,686	890.4	886.9	0.3	22	70	0.2

* 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 20-meter LIDAR data.



Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Designed	06/2009
Drawn	06/2009
Checked	06/2009
Approved	06/2009

DDG-0154 NID-KS00589
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
6/29/2009 Sheet 1 of 1