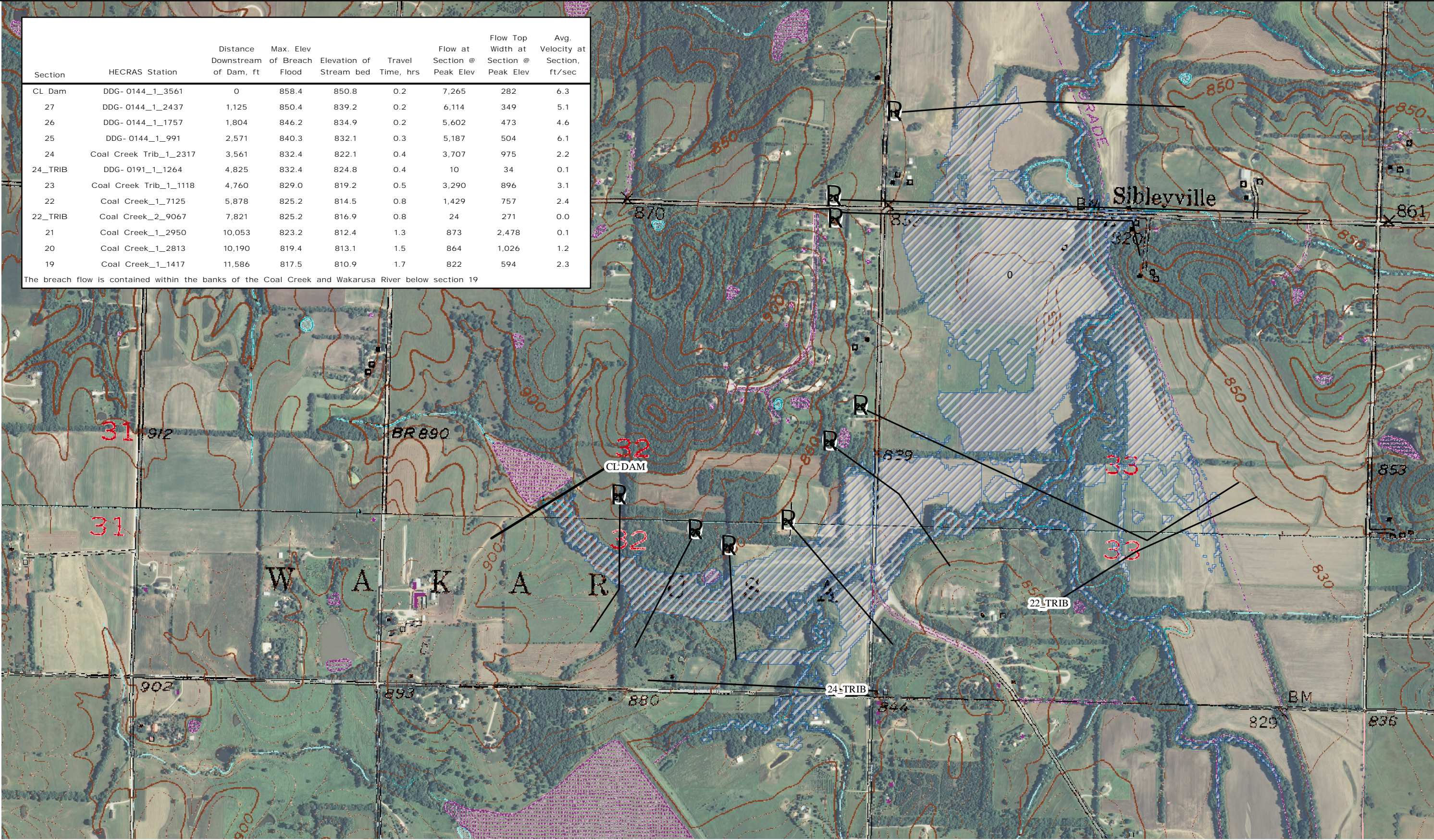


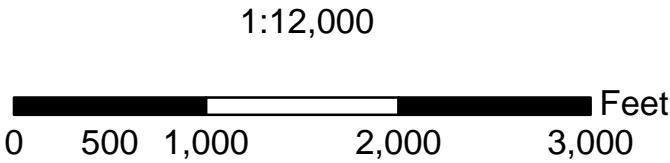
Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0144_1_3561	0	858.4	850.8	0.2	7,265	282	6.3
27	DDG- 0144_1_2437	1,125	850.4	839.2	0.2	6,114	349	5.1
26	DDG- 0144_1_1757	1,804	846.2	834.9	0.2	5,602	473	4.6
25	DDG- 0144_1_991	2,571	840.3	832.1	0.3	5,187	504	6.1
24	Coal Creek Trib_1_2317	3,561	832.4	822.1	0.4	3,707	975	2.2
24_TRIB	DDG- 0191_1_1264	4,825	832.4	824.8	0.4	10	34	0.1
23	Coal Creek Trib_1_1118	4,760	829.0	819.2	0.5	3,290	896	3.1
22	Coal Creek_1_7125	5,878	825.2	814.5	0.8	1,429	757	2.4
22_TRIB	Coal Creek_2_9067	7,821	825.2	816.9	0.8	24	271	0.0
21	Coal Creek_1_2950	10,053	823.2	812.4	1.3	873	2,478	0.1
20	Coal Creek_1_2813	10,190	819.4	813.1	1.5	864	1,026	1.2
19	Coal Creek_1_1417	11,586	817.5	810.9	1.7	822	594	2.3

The breach flow is contained within the banks of the Coal Creek and Wakarusa River below section 19



\* 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
07/06/2009				
08/20/09				

DDG-0144 NID-KS00586  
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/06/2009
Sheet 1 of 1