· · · · · · · · · · · · · · · · · · ·	7100 <u>C</u>	WKWI	Dat	e		ials	-
Bridge Structure No. 1526 8/39 Loc	cation Fre	om Krar	zburg	IW,	3.7 A	<u> </u>	<u>.</u>
Bridge Structure No. 1526 8/39 Loc GPS coordinates: N 44° 56.918'	taken from:	USL abutmen	t_ X	centerline o	f îl MRM e	nd	
W 96° 56.842'	Datum of coo	ordinates: W	GS84 <u>X</u>	NAD27_			
Drainage area = 71.91 sq. mi.					,		
The average bottom of the main channel was 12	,9 ft below	top of guardi	ail at a point	t 30	ft from lef	t abutment.	•
Method used to determine flood flows:Freq.	Anal	drainage area	ratio 🔽	regional regr	ession equa	ations.	
		OUS CONSI					
Flows		2930	DERATION	$Q_{500} =$	4710		
Estimated flow passing through bridge	2930		4520				
Estimated now passing through bridge Estimated road overflow & overtopping	0		190				
Consideration	Yes	No	Possibly	Yes	No	Possibly	
Chance of overtopping		~	1				
Chance of Pressure flow		~		~			
Armored appearance to channel		1/					
			V				1 1 2
			Left abe	itment i	s Scour	ed, right	abutment risalso our, but of bridge has a
Riprap at abutments? YesYes	No	Marginal	has som	e field s	tone rip	wb, ga	risalso.
Evidence of past Scour? Yes	No	Don't knov	v scource	d. No	phulous	pier sc	our, but
Debris Potential? High	Med 1	Low	one oil	er on do	wnstrea	im side	e of bridge
Debits I defined:			bas	neun re	_inforce	d and	hasa
Does scour countermeasure(s) appear to have been	designed?		lacare	diamete	rnow		
		oDo	n't know	NA	5		
1 1							
	oc N	Λ . Do	n't know	NA NA			
		oDo	_				
1		oDo oDo	_				
OtherY	esN	oDo	n't know	NA			
Other Y Bed Material	esN Classification	oDo	n't know	NA le Size (D ₅₀)	1	Declare	
OtherY Bed Material Material Silt/Clay Sand>	esN Classification	oDo n Based on M Gravel	n't know	NA le Size (D ₅₀) Cobbles		Boulders_	
OtherY Bed Material Material Silt/Clay Sand _>	esN Classification	oDo	n't know	NA le Size (D ₅₀) Cobbles 64-250		Boulders>250	
Other Y Bed Material Material Silt/Clay Sand \(\sigma\) Size range, in mm <0.062 0.062-2	Classification Classification	oDo n Based on M Gravel 2.00-64	n't know edian Particl Ph	NA le Size (D ₅₀) Cobbles 64-250			
OtherY Bed Material Material Silt/Clay Sand \(\sigma \) Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho	Classification Classification Classification Classification Classification Classification Classification	oDo n Based on M Gravel 2.00-64	n't know edian Particl Ph	NA le Size (D ₅₀) Cobbles 64-250 wo to S	2 f		
OtherY Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge and	Classification Classification Coo Coo Coo Coo Coo Coo Coo	oDo n Based on M Gravel 2.00-64	n't know edian Particl Ph	NA le Size (D ₅₀) Cobbles 64-250 wo to S	2 f		
OtherY Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge and	Classification Classification Classification Control C	n Based on M Gravel 2.00-64 Struce	n't know edian Particl Ph twe no	NA The Size (D ₅₀) Cobbles 64-250 The total colors The color	ge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a coad grade. If road over	Classification Classi	n Based on M Gravel 2.00-64 Struce	n't know edian Particl Ph twe no	NA The Size (D ₅₀) Cobbles 64-250 The total colors The color	ge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a coad grade. If road over	Classification Classi	n Based on M Gravel 2.00-64 Struce	n't know edian Particl Ph twe no	NA The Size (D ₅₀) Cobbles 64-250 The total colors The color	ge	>250	
OtherY Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge and	Classification Classi	Do n Based on M Gravel 2.00-64 Struct appro	n't know edian Particl Ph twe no	NA The Size (D ₅₀) Cobbles 64-250 The total colors The color	ge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a coad grade. If road over	Classification Classi	Do n Based on M Gravel 2.00-64 Struct appro	n't know edian Particl Ph twe no	NA The Size (D ₅₀) Cobbles 64-250 The total colors The color	ge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over occurs, it will be at the bri	Classification Classi	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB ROB left a cight	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA le Size (D ₅₀) Cobbles 64-250 wotos umber world lidge left a nder bri under	ge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a coad grade. If road over	Classification Classi	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB ROB left a reinfe	n't know edian Particl Ph twe no	NA le Size (D ₅₀) Cobbles 64-250 wotos umber world lidge left a nder bri under	ge ppioad idge bridge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over- occurs, it will be at the bri Summary of Results	Classification Classi	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB ROB left a reink Q100	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA The Size (D ₅₀) Cobbles 64-250 The bridge The fidge The	ge ppioad idge bridge	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over- occurs, it will be at the bri Summary of Results Bridge flow evaluated	Classification Classi	o Do n Based on M Gravel 2.00-64 Struct appro LOB ROB ROB ROB Ieft a reink 0100 2930	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA e Size (D ₅₀) Cobbles_ 64-250 woto S umber whidge idge left a nder bri under	ge ppipad idge bridge Q500 4520	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over occurs, it will be at the bridge at the bridge flow evaluated Bridge flow evaluated Flow depth at left abutment (yaLT), in feet	Classification Classi	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB RoB left a right reinfi Q100 2930	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA e Size (D ₅₀) Cobbles 64-250 wotos mborid idge idge left a nder bri er	ge ppioad idge bridge Q500 4520 3.8	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over occurs, it will be at the bridge flow evaluated Flow depth at left abutment (yaLT), in feet Flow depth at right abutment (yaRT), in feet	Classification Classi	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB Robert Q100 2930 1.4 1.6	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA e Size (D ₅₀) Cobbles 64-250 wotos whole idge left a nder brid er	ge idge bridge Q500 4520 3,8	>250	
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Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over- occurs, it will be at the bri Summary of Results Bridge flow evaluated Flow depth at left abutment (yaLT), in feet Flow depth (yas), in feet Pier scour depth (yps), in feet	Classification Classi	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB ROB Ridg left a reinfr Q100 27.30 1.6 3.3 5.6	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA e Size (D ₅₀) Cobbles 64-250 woto S umber world idge left a nder bri er	ge ppioacl idge bridge 2500 4520 3.8 3.7 0+2 5.7	>250	
Bed Material Material Silt/Clay Sand Size range, in mm <0.062 0.062-2 Comments, Diagrams & orientation of digital pho In this setting, the bridge at to be at the low point in a road grade. If road over occurs, it will be at the bridge a	Classification Classification Coo tos ppeacs He Flow Udge.	oDo n Based on M Gravel 2.00-64 Struct appro LOB ROB ROB left a right reink Q100 2930 1.4 1.6 3.3	edian Particl Ph twe no ach fro from br from br e from but. us abut	NA The Size (D ₅₀) Cobbles 64-250 who s who id idge left a nder brid er 19	ge ppioad idge bridge Q500 4520 3.8 3.7 0.2	>250	

Basin Characteristics from Provisional Stream Stats 10-7-11 Cont. D.A. = 71.91 miz PII = 0.97 100% Subregion A

Manually Calculated Peales Q100 = 2930 cfs

Q500 = 4710 cfs