



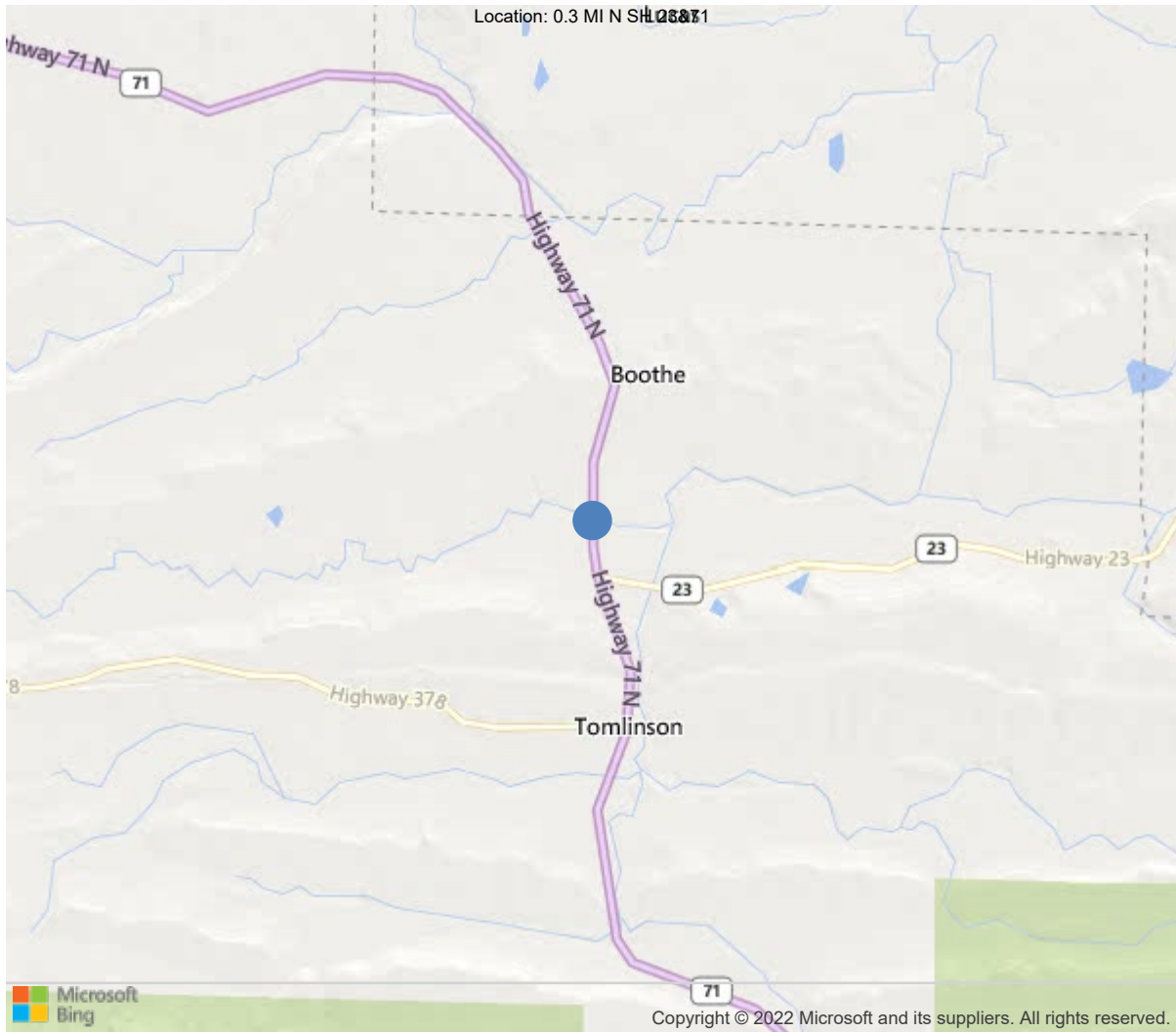
Latitude:35.03330, Longitude:-94.12242

Route:71 Section:10 Log:32.95

Arnold Road ID:63x71x10xA, Arnold Log mile:32.94

District 04, 127 - Scott County

Owner: 1 - State Highway Agency



35.03330, -94.12242



Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00317
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	127 - Scott County
(4) Place Code	0
(6) Features Intersected	Kings Creek - Scott Co.
(7) Facility Carried	US Highway 71
(9) Location	0.3 MI N SH 23&71
(11) Mile Point	32.95 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.0333
(17) Longitude	-94.12242
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	2 - Integral Concrete (separate non-mo
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1928
(106) Year Reconstructed	1981
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5100
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	104 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	46.8 ft
(32) Approach Roadway Width (W/Shoulders)	33.1 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	45.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	48
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	29
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	8 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	6222
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/24/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



Asset #00317(Routine)

District: 04, County: 127

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

A-46 - Asset Files

-

General Observation (False)

05/24/2021 - JCJ & TJL- Routine Inspection conducted this date.

06/20/2019 - EJW & JPW - Underwater Type II Inspection. Visual observation during low water conditions. The repair collars at Bent # 3 are exposed. No apparent scour problems at this inspection.



Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2048	1451	569	28	0
1080	Delamination/Spall/Patched Area	SF	132	0	132	0	0
1090	Exposed Rebar	SF	17	0	0	17	0
1120	Efflorescence/Rust Staining	SF	343	0	332	11	0
1130	Cracking (RC and Other)	SF	105	0	105	0	0
510	Wearing Surfaces	SF	2048	17	2031	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	4	0	4	0	0
3220	Crack (Wearing Surface)	SF	87	0	87	0	0
3230	Effectiveness (Wearing Surface)	SF	1940	0	1940	0	0
<p>(16) -Driving surface of the top flange has a new rigid wearing surface surface placed before the last inspection.</p> <p>-The new wearing surface over the top flange has a few longitudinal and transverse cracks in areas.</p> <p>-There are scrape marks in the edge of the Left Lane with shallow spalls at the expansion joints.</p> <p>-The undersurface of deck has transverse cracks with rust stains at approximately 6" to 10" centers with efflorescence at variable spacing in all spans along with numerous hairline longitudinal, diagonal, and map cracks with efflorescence. The most extreme case is Span # 3.</p> <p>-Several full depth repairs that are visible from the undersurface of the deck, some are covered with temporary form work left in place.</p> <p>-The undersurface has shallow spalls with exposed reinforcing steel, the most extreme case is Span # 3 Bay # 2 with several exposed bars adjacent to the abutment.</p>							
38	RC Slab	SF	2870	1036	1834	0	0
1080	Delamination/Spall/Patched Area	SF	71	0	71	0	0
1120	Efflorescence/Rust Staining	SF	41	0	41	0	0
1130	Cracking (RC and Other)	SF	1722	0	1722	0	0
<p>(38) -Transverse cracks, some sealed with epoxy in the driving surface of the slab.</p> <p>-Areas with hairline map cracking on the shoulders and driving surface of the slab.</p> <p>Slab Soffit -</p> <p>-Transverse cracks with efflorescence at variable spacing.</p> <p>-The undersurface of the deck has longitudinal cracks with delaminated areas along the edges of the slab.</p> <p>-This structure was constructed without drip grooves.</p>							
110	Reinforced Concrete Open Girder/Beam	LF	315	152	160	3	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1120	Efflorescence/Rust Staining	LF	8	0	8	0	0
1130	Cracking (RC and Other)	LF	152	0	152	0	0



Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(110) -In Span # 1, the ends of girders have basket ball sized delaminated areas over Bent # 2. Maintenance forces have made grouted repairs to some of the delaminated areas in the past, repairs appear to be delaminated.							
-Span # 3, Girder # 2 has longitudinal hairline cracks with efflorescence at the deck juncture.							
205	Reinforced Concrete Column	EA	14	3	10	1	0
1080	Delamination/Spall/Patched Area	EA	3	0	2	1	0
1090	Exposed Rebar	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0
(205) -Concrete collars at the base of Bent # 3 are exposed during this inspection. -Collars appear to have been constructed on gravel and do not reach the top of footings. -Base of columns in the channel have medium abrasion. Top of footings of original columns at bent # 3 are exposed during this inspection with no apparent scour problems.							
215	Reinforced Concrete Abutment	LF	221	159	54	8	0
1080	Delamination/Spall/Patched Area	LF	7	0	4	3	0
1120	Efflorescence/Rust Staining	LF	9	0	6	3	0
1130	Cracking (RC and Other)	LF	30	0	28	2	0
1190	Abrasion/Wear (PSC/RC)	LF	16	0	16	0	0
(215) -Bent # 1 has diagonal and map cracking with efflorescence under Girders # 1 and 3 in the original portions of the abutment. -There are grouted repairs adjacent to Girder # 3 in Bent # 1. -One full height vertical crack under Girder # 2. -Bent # 4 has diagonal cracking with efflorescence under Girders # 1 and 3 in the original portions of the abutment. -One full height vertical crack under Girder # 2. -Bent # 4 has a horizontal crack that appears to propagate from the weep holes in the original portion of the abutment.							
234	Reinforced Concrete Pier Cap	LF	95	78	16	1	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1090	Exposed Rebar	LF	2	0	1	1	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
(234) -Cracking with efflorescence at Bent # 2 where the original substructure was widened and in the bearing area of girders. -Maintenance forces have patched some areas in the past. -There is one shallow spall with exposed reinforcing reinforcing in the Span # 3 side of Bent # 3 under Girder # 3.							
301	Pourable Joint Seal	LF	109	55	54	0	0
2350	Debris Impaction	LF	54	0	54	0	0
(301) -Poured joint seals placed between the new wearing surfaces. -There is dirt accumulation in the slab span portions of the joints.							
331	Reinforced Concrete Bridge Railing	LF	210	198	3	9	0
1090	Exposed Rebar	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(331) -There is light scale at the base of the Right parapet wall. -Several spalls with exposed reinforcing steel in the Left parapet of Span # 3.						

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

Deck

[illegible]

Asset #00317(Routine)
US Highway 71 over Kings Creek - Scott Co.

Asset #00317(Routine)
US Highway 71 over Kings Creek - Scott Co.



Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Approach roadway facing North.



Deck. Typical.



Undersurface of Span # 1. Typical.



Bent # 4 Lt diagonal crack with efflorescence and rust stains.



Roadway



Span # 2 typical undersurface of the slab.



Span # 2 concrete delamination along the Left edge.



Log mile sign is incorrect.



Span # 3 Bay # 2 deck repair.



Typical driving surface of the slab.



Bent # 3 over Col # 5 spalling with exposed reinforcing steel.



Sealable cracking on the new driving surface of the deck.



Elevation



Bent # 1 Rt at Girder # 3 cracking with efflorescence and repairs.



Span # 1 Lt concrete delamination along the slab edge.



Bent # 2 column # 3 vertical cracking and concrete delamination's.



Span # 1 Bay # 3 deck repair.



Typical undersurface of the deck.



Span # 1 Rt small concrete delamination's along the edge.



Bent # 3 column with medium abrasion.



Bent # 4 Vertical and horizontal cracking.



Span # 3 Bay # 2 exposed reinforcing steel.



Bent # 2 & 3 poured joint seals.



Span # 2 Rt concrete delamination's along the edge of the slab.



Span # 1 Bent # 2 spalling at the ends of the girders.



Span # 3 typical undersurface of the deck.



Typical map cracking on the concrete slab spans.



Span # 1 Girder # 2 longitudinal cracking near mid span with efflorescence.



Transverse crack in the wearing surface of the deck.



Deck. Typical.



Expansion joint over Bent # 2. Typical.



Wearing surface of the deck. Typical.



There are scrape marks in the edge of the Left Lane with shallow spalls at the expansion joints.



Undersurface of Span # 1 top flange. Typical.



Deck soffit span # 2. Several full depth repairs with temporary form work left in place.



Span # 3. Adjacent to Bent # 4. Spalls with exposed reinforcing steel and full depth repairs with temporary form work left in place.



Left side of Span # 2.



Left side of Span # 2. Transverse cracks.



Transverse crack. Right side of Span # 2.



Hairline map cracking in the gutters.



Left slab soffit. Span # 1. Delaminated areas.



Right slab soffit. Span # 2. Delaminated areas along edge of slab.



Grouted repairs in Span # 1 girders over Bent # 2.



Span # 3. Superstructure. Typical.



Columns at Bent # 3.



Bent # 3 1. Typical.



Diagonal and map cracking with efflorescence and grouted repairs adjacent to girder # 3 in Bent # 1.



Bent # 3. Typical.



Bent # 2. Typical.



Spall with exposed reinforcing steel in span # 3 side of Bent # 3 under Girder # 3.



There is dirt accumulation in the slab span portions of the joints.



Several Spalls with exposed reinforcing steel in the Left parapet of Span # 3.



Parapet. Typical.



Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

Maintenance Needs

Date Reported: 07/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

R. C. Deck

Map cracking with efflorescence is visible from the undersurface of Spans # 1 and # 3.

Remarks



Span # 3 typical undersurface of the deck.



Span # 1 Bay # 3 cracking with efflorescence.



Map cracking with efflorescence in deck soffit of
Span # 1.



Map cracking with efflorescence in the deck soffit of
Span # 3.

Date Reported: 07/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Concrete Deck Girders

Girder # 1, 2, & 3 of Span # 1 have delaminated areas adjacent to Bent # 2.

Remarks



Span # 1 Bent # 2 spalling at the ends of the girders.



Delaminated areas in Span # 1 Girders over Bent # 2.

Date Reported: 07/02/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

R.C. Slab Span

The undersurface of the slab spans have areas that are delaminated and spalled along the exterior edges.

Remarks



Span # 2 Rt concrete delaminations along the edge of the slab.



Left slab soffit of Span # 2. Delaminated areas along edge of slab.

Date Reported: 06/20/2019
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

R.C. Deck

Spalling with exposed reinforcing steel visible from the undersurface of the deck adjacent to bent # 4.

Remarks



Span # 3 Bay # 2 exposed reinforcing steel.



Span # 3 bay # 2. Spalls with exposed reinforcing steel adjacent to bent # 4.

Date Reported: 06/20/2019
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: Repair (General)
Status: RepairDocumented
Component: Approach

Deficiency Description

Log Mile Signs

The log mile signs posted at the structure are incorrect.

Log mile posting should be 32.95.

Remarks

05/24/2021 - JCJ & TJL - Log Mile Sign is correct during this inspection.

Replaced incorrect sign with corrected Log Mile Sign

Work done by Crew #04002

No photos to attach at this time

Complete



Log mile sign is incorrect.



05/24/2021 - JCJ & TJL - Log Mile Sign is correct during this inspection.

Date Reported: 05/25/2021
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

The Left parapet of Span # 3 has shallow spalls with exposed reinforcing steel.

Remarks



The Left parapet of Span # 3 has shallow spalls with exposed reinforcing steel.



Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

Routine Maintenance

Check Box Maintenance Items

Data Field	Value
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57-Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydo and LMC Advised	



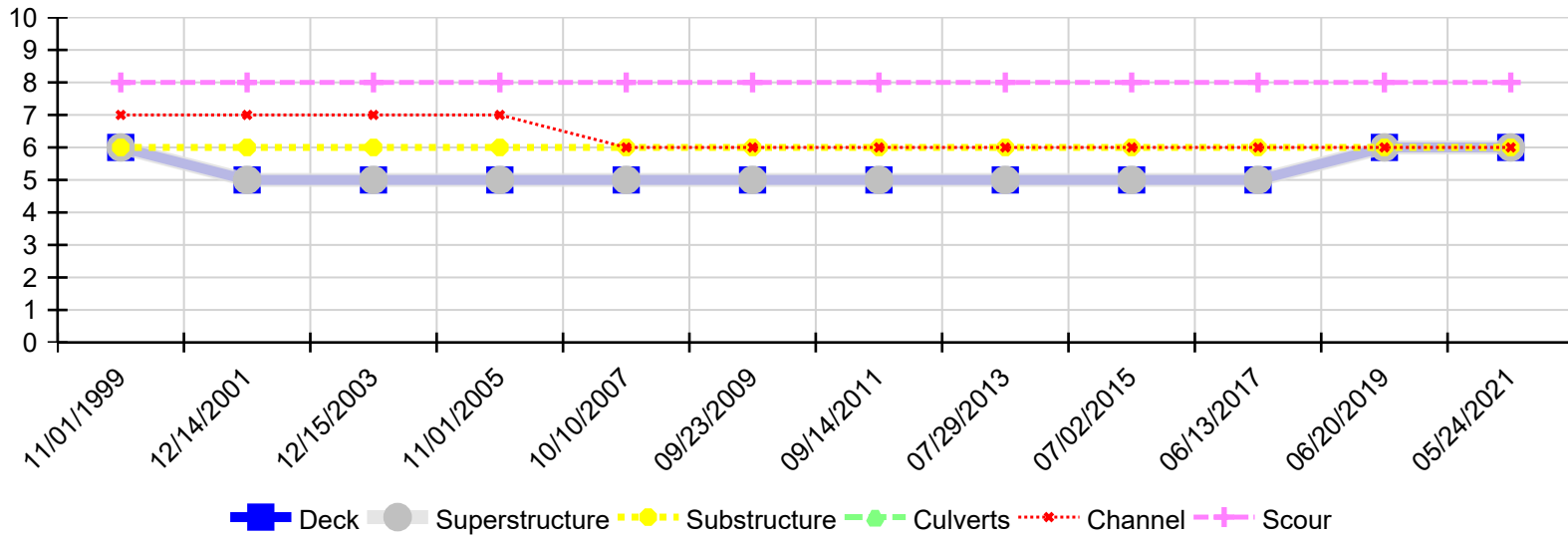
Asset #00317(Routine)

US Highway 71 over Kings Creek - Scott Co.

Location: 0.3 MI N SH 23&71

Team Lead: Jeff Jones, Inspection Date: 05/24/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/24/2021	6	6	6	N	6	8
06/20/2019	6	6	6	N	6	8
06/13/2017	5	5	6	N	6	8
07/02/2015	5	5	6	N	6	8
07/29/2013	5	5	6	N	6	8
09/14/2011	5	5	6	N	6	8
09/23/2009	5	5	6	N	6	8
10/10/2007	5	5	6	N	6	8
11/01/2005	5	5	6	N	7	8
12/15/2003	5	5	6	N	7	8
12/14/2001	5	5	6	N	7	8
11/01/1999	6	6	6	N	7	8