



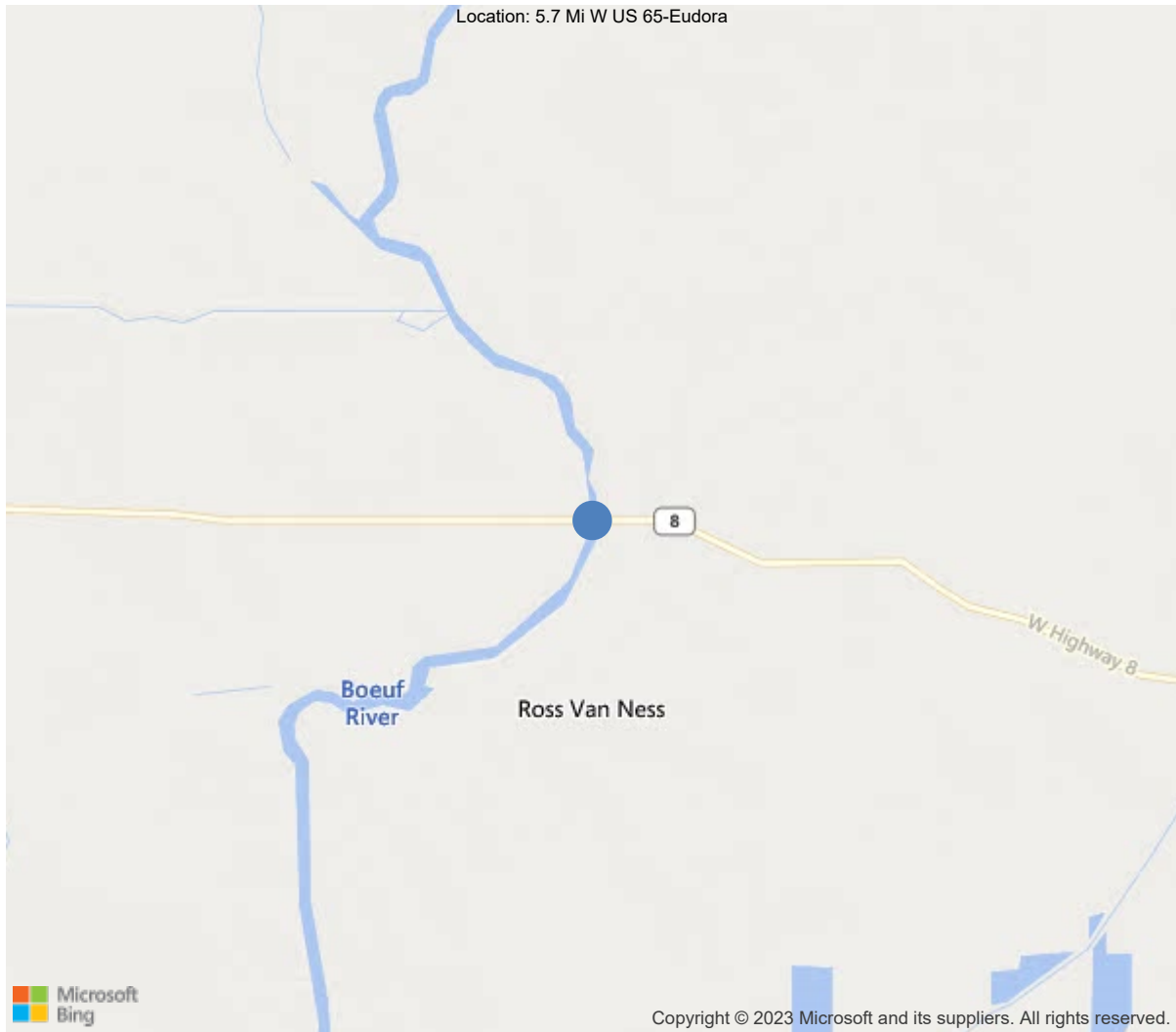
Latitude:33.12423, Longitude:-91.34856

Route:8 Section:16 Log:6.87

Arnold Road ID:9x8x16xA, Arnold Log mile:6.86

District 02, 17 - Chicot County

Owner: 1 - State Highway Agency



33.12423, -91.34856



Asset #02963(Routine, Underwater type 2)

SH 8-16 LM 6.87 over Boeuf River

Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02963
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	17 - Chicot County
(4) Place Code	0
(6) Features Intersected	Boeuf River
(7) Facility Carried	SH 8-16 LM 6.87
(9) Location	5.7 Mi W US 65-Eudora
(11) Mile Point	6.87 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.1242332909029
(17) Longitude	-91.3485571286414
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	6
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1955
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	496
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	25 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	55 ft
(49) Structure Length	332.1 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.9 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	5 - None present but re-evalua
(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	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(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	0 - The inventory route is not
(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	5
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	39
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	23
(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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - 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	501
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/01/2022		
(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 #02963(Routine, Underwater type 2)

District: 02, County: 17 - Chicot County

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

General Observation

Bridge is logged from west to east.

Beginning of structure toward Ashley/Chicot County Line, West End.

Updated LM from 6.99 to 6.87 per Str Ln from Tech Serv. dated 10/09. DRB, 1/5/2010

A-46 - Asset Files

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Asset #02963(Routine, Underwater type 2)

SH 8-16 LM 6.87 over Boeuf River

Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, **Inspection Date:** 06/01/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
227	Reinforced Concrete Pile	EA	30	11	18	1	0
1130	Cracking (RC and Other)	EA	1	0	0	1	0
1190	Abrasion/Wear (PSC/RC)	EA	18	0	18	0	0
(227) Piling: 6 per bent (stabilizing sub-cap mid-way of pile) / Bents 2-6. Bent 2 Pile 1: Hairline vertical crack 12-14" from bottom of cap down inside face of pile. Bents 3-5: All pile have minor abrasive wear.							
234	Reinforced Concrete Pier Cap	LF	110	20	23	67	0
1080	Delamination/Spall/Patched Area	LF	26	0	11	15	0
1090	Exposed Rebar	LF	57	0	12	45	0
1130	Cracking (RC and Other)	LF	7	0	0	7	0
(234) Caps: 22' each / Bents 2-6. Bents 2-6: Some cracking/delaminating/spalling in various locations. Reinforcing steel is rusting with some minor section loss in these locations.							
305	Assembly Joint without Seal	LF	175	0	0	175	0
2350	Debris Impaction	LF	175	0	0	175	0
(305) Joints: 25' each / Bents 1-7. All joints are CS3 debris impacted due to asphalt overly. Asphalt wearing surface has been pushed up at joints between spans, causing a rough ride and a bump at each joint.							
311	Movable Bearing	EA	30	0	30	0	0
1000	Corrosion	EA	30	0	30	0	0
515	Steel Protective Coating	SF	60	0	0	60	0
3440	Effectiveness (Steel Protective Coatings)	EA	60	0	0	60	0
(311) Movable bearings: 5 per bent / Bents 2 back, 3 back, 4 back, 5 back, 6 back, & 6 ahead. Coating/paint: 2 square feet each. All bents: Some light surface rust covering most of bearings with flaking rust forming.							
313	Fixed Bearing	EA	30	0	30	0	0
1000	Corrosion	EA	30	0	30	0	0
515	Steel Protective Coating	SF	60	0	0	60	0
3440	Effectiveness (Steel Protective Coatings)	EA	60	0	0	60	0
(313) Fixed bearings: 5 per bent / Bents 1, 2 ahead, 3 ahead, 4 ahead, 5 ahead, & 7. Coating: 2 square feet each. All bents: Some light surface rust covering most of bearings.							
330	Metal Bridge Railing	LF	664	0	664	0	0
1000	Corrosion	LF	664	0	664	0	0
515	Steel Protective Coating	SF	1793	0	0	1793	0
3440	Effectiveness (Steel Protective Coatings)	LF	1793	0	0	1793	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(330) Railing: 332' each side. Coating/paint: 2.7 square feet per linear feet of railing. Surface rust beginning to show throughout all of railing.						



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SH 8-16 LM 6.87 over Boeuf River

Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8360	4242	3025	1093	0
1080	Delamination/Spall/Patched Area	SF	950	0	950	0	0
1090	Exposed Rebar	SF	262	0	25	237	0
1120	Efflorescence/Rust Staining	SF	1006	0	950	56	0
1130	Cracking (RC and Other)	SF	1900	0	1100	800	0
510	Wearing Surfaces	SF	7920	5540	1192	1100	88
3210	Delam/Spall/Patched Area/Pothole	SF	200	0	200	0	0
3220	Crack (Wearing Surface)	SF	2180	0	992	1100	88

(12) Deck: 25'-4" wide (1'-7" STEP-UP each side) x 330' long = 8360 sqft.

Wearing surface: 24' wide x 330' long = 7920 sqft.

All spans: Minor- to moderate-sized transverse cracking in asphalt wearing surface with some potholing beginning, mainly on Spans 2 & 3.

Significant cracking with some "mounding-up" at bents.

Soffit:

Spans 1-6: Numerous areas cracking with efflorescence and rust staining. A few areas of spalling with reinforcing steel exposed.

Spans 5 & 6: Spalling on overhangs with some reinforcing steel exposed around drain hole areas.



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SH 8-16 LM 6.87 over Boeuf River

Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1650	952	514	184	0
1000	Corrosion	LF	698	0	514	184	0
515	Steel Protective Coating	SF	12326	0	5853	5093	1380
3410	Chalking (Steel Protective Coatings)	LF	5853	0	5853	0	0
3420	Peeling/Bubbling/Cracking	LF	1238	0	0	1238	0
3440	Effectiveness (Steel Protective Coatings)	LF	5235	0	0	3855	1380

(107) Girders: 5 per span / Spans 1-6 (55' each = 330' total span).
 Coating/paint (W30x124): 7.47 square feet per linear feet of girder.
 All spans: Some light surface rust beginning throughout, with rust with some flaking and section loss at ends of girders, mainly at haunches and on top of bottom flanges. (6' each end of each girder = 180' total)
 Bent 6 span 5 girder 5 has heavy flaking rust to lower flange approximately 4' from end.
 Rust on outside of bottom flange of outside girders, heaviest under drains. (Girder 1 = 294' - full-length due to utility, Girder 5 = 120')
 A few scattered rusty places (little or no section loss) on top flanges of girders near cracks in deck. (100' total)



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SH 8-16 LM 6.87 over Boeuf River

Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Right side view



Roadway view



Deck - Spans 1-6: Typical



Soffit - Span 2: Typical



End-slope - Bent 1: Erosion

Maintenance Needs

Date Reported: 05/30/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Girders – all spans:

Some light surface rust beginning throughout, with rust with some flaking and section loss at ends of girders, mainly at haunches and on top of bottom flanges. (6' each end of each girder = 180' total)

Rust on outside of bottom flange of outside girders, heaviest under drains. (Girder 1 = 294' – full-length due to utility, Girder 5 = 120')

A few scattered rusty places (little or no section loss) on top flanges of girders near cracks in deck.

Remarks





Span 5 at bent 6 at girder 5 has heavy flaking rust .



Span 6 at bent 6 girder 5 has flaking rust at bearing area 5'. Common several girder ends this bridge.



Girders 2-4 @ Bent 6 (corrosion)



Bent 6 back and ahead, girders hav rust and rus its flaking areas.

Maintenance Needs

Date Reported: 05/30/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Caps – Bents 2-6:

Cracking/delaminating/spalling in various locations. Reinforcing steel is rusting with some minor section loss to reinforcing steel in these locations.

Remarks



Cap - Bent 6 back (delamination)



Cap - Bent 6 right ahead (rebar exposed)



Bent 2 cap under girder 3 has spalls, delambs and exposed rebar .



Bent 2 cap back has spalls ,spalls with exposed rebar and delaminations. Common ahead face and bents 3,4, 5 & 6.



Bent 6 cap ahead face has heavy delambs .



Bent 3 back cap cracking under bearing 3.



Bent 6 cap has spalls ,delambs and exposed rebar with minor section lose.

Maintenance Needs

Date Reported: 05/30/2018

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Monitor

Component: Channel

Deficiency Description

Channel - Bents 4-5 Some build-up of logs, limbs, and other debris against left side of piling.
"Note debris has been removed in the past but continues to be a maintance issue."

Remarks

bride / maintenance : remove debris and advise when complete



Channel - Bents 3-5: Debris build-up



Bents 3-5 has one debris on pile.



Drift and debris at bent 4&5 on piles 1&4 at each bent.



Channel - Bents 3-5 (debris built-up)



Channel - Bents 3-5 (debris built-up)

Maintenance Needs

Date Reported: 05/30/2018

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Soffit -

Spans 1-6: Numerous areas cracking with efflorescence and rust staining. A few areas of spalling with reinforcing steel exposed.

Spans 5 & 6: Spalling on overhangs with some reinforcing steel exposed around drain hole areas.

Remarks



Span 2 soffit spalls with rebar exposed and cracking with efflorescence.



Soffit spalls with exposed rebar common most spans.



Span 5 under side of deck has spalls with exposed rebar
between girders 1&2 near bent 6 .

Maintenance Needs

Date Reported: 04/11/2012

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Deck – all spans:

Minor- to moderate-sized transverse cracking in asphalt wearing surface with some potholing beginning, mainly on Spans 2 & 3.

Asphalt has been pushed up at joints between spans, causing a rough ride and a bump at each joint.

Remarks



Wearing surface - Span 5 (cracking)



Wearing surface - Bent 6 (cracking)



Wearing surface - Span 4 (cracking)



Wearing surface - Span 2 (patches)



Wearing surface - Bent 4 (cracking)



Span 2 wearing surface has patched areas. Common in span 3.

Maintenance Needs

Date Reported: 04/11/2012

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bearings – all bents:
Some light surface rust covering most of bearings.

Remarks



Bearings 2 @ Bent 6 (corrosion)

Maintenance Needs

Date Reported: 05/30/2018

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Assigned

Type of Work: (Inactive) (Inactive) 1 - Clean

Component: Channel

Deficiency Description

Trees , vines and vegetation growing on and under bridge at both ends.

06-01-2022 GGL-PRD: Changed priority from C to G.

NOTE: Some vegetation has been cut, but some continues to grow.

Remarks



Tall trees vines and vegetation impeding inspection .



Trees vines and vegetation impeding inspection .



Large trees ,vines and vegetation on and under bridge.



Trees and vegetation growing on and under bridge.



Span 1 vines, trees and vegetation.



Channel - Span 1 right: Vegetation



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Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, **Inspection Date:** 06/01/2022

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
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 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



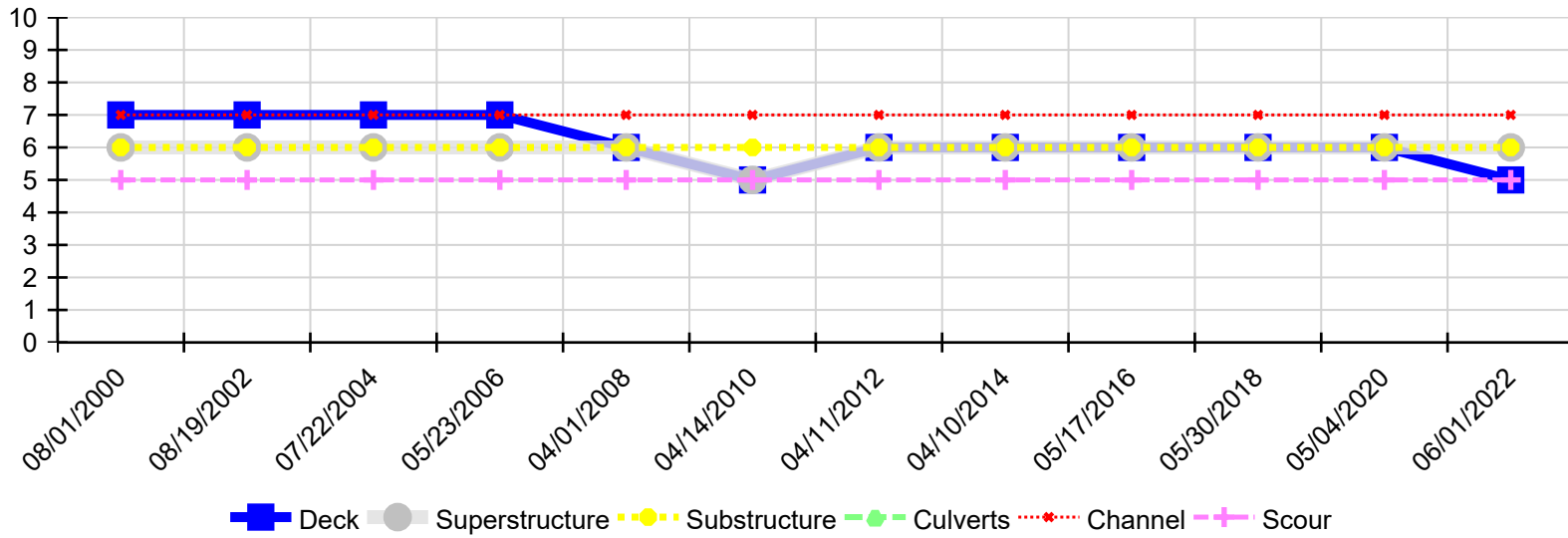
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Location: 5.7 Mi W US 65-Eudora

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/01/2022	5	6	6	N	7	5
05/04/2020	6	6	6	N	7	5
05/30/2018	6	6	6	N	7	5
05/17/2016	6	6	6	N	7	5
04/10/2014	6	6	6	N	7	5
04/11/2012	6	6	6	N	7	5
04/14/2010	5	5	6	N	7	5
04/01/2008	6	6	6	N	7	5
05/23/2006	7	6	6	N	7	5
07/22/2004	7	6	6	N	7	5
08/19/2002	7	6	6	N	7	5
08/01/2000	7	6	6	N	7	5