



Latitude:35.31794, Longitude:-93.18524

Route:64 Section:06 Log:6.588

Arnold Road ID:58x64x6xA, Arnold Log mile:6.568

District 08, 115 - Pope County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

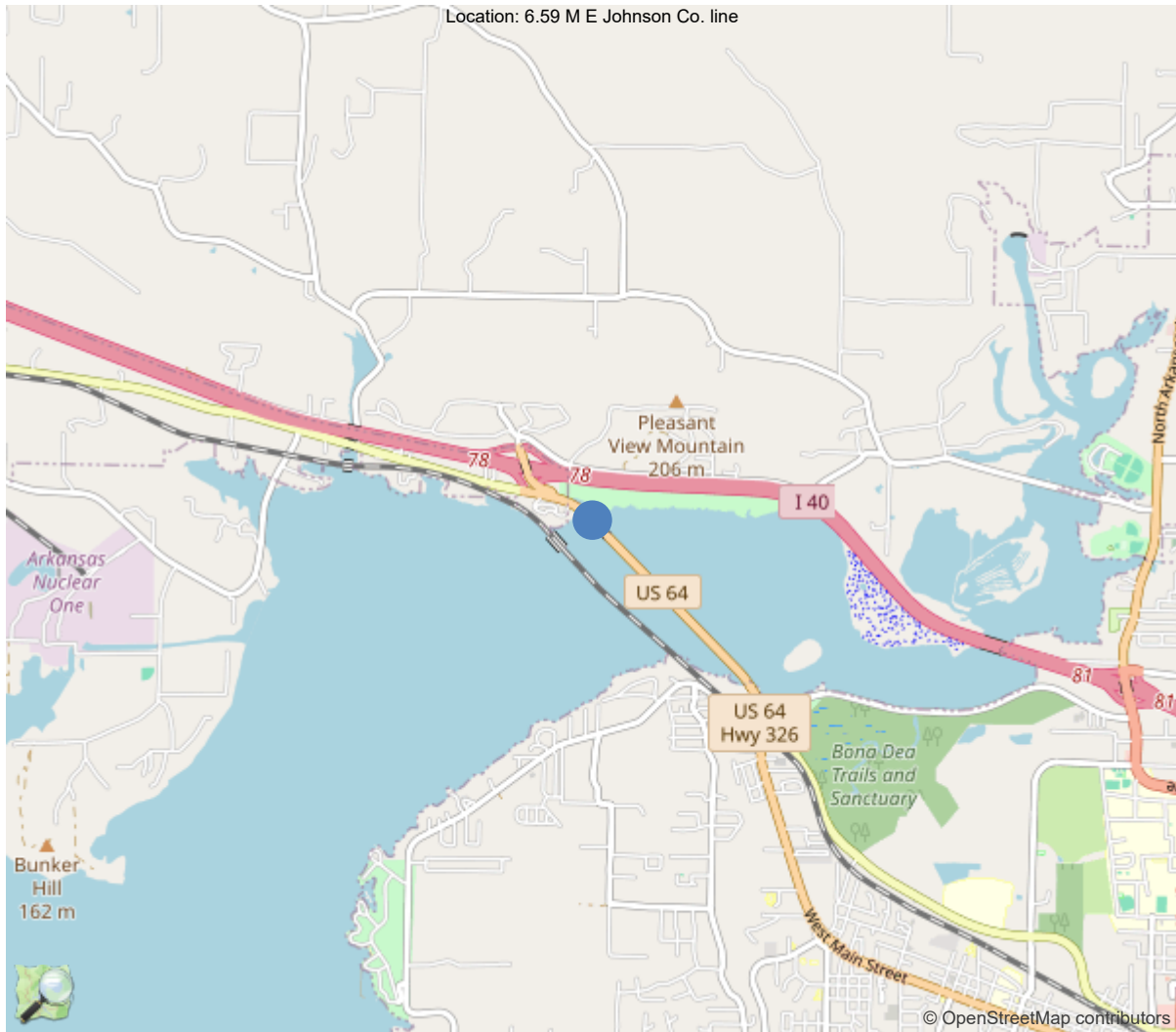
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	44		
Code 9 (31 Tons)	47		
Code 5 (40 Tons)	51		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.31794, -93.18524

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03643
(5) Inventory Route	1
(2) Highway Agency District	08 - District 08
(3) County Code	115 - Pope County
(4) Place Code	0
(6) Features Intersected	Illinios Bayou
(7) Facility Carried	US 64
(9) Location	6.59 M E Johnson Co. line
(11) Mile Point	6.588 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.31794
(17) Longitude	-93.18524
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
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	8
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1964
(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	9777
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	77 ft
(49) Structure Length	561 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33 ft
(32) Approach Roadway Width (W/Shoulders)	30.8 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	31.2 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	0
(26) Functional Class	17 - Urban Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(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	5
(59) Superstructure	5
(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	51
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	31
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	6
(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	4 - 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	11878
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/24/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	Yes	60	11/08/2021
C: Other Special Inspection	No		
* 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.			



58 - Deck (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

DECK - MINOR TO MODERATE CRACKING THROUGHOUT DECK. MINOR DELAM, SCALING & SPALLING THROUGHOUT DECK. NUMEROUS PATCHED AREAS THROUGHOUT DECK. SEVERAL PATCHED AREAS HAVE MINOR TO MODERATE CRACKING IN THEM. MINOR TO MODERATE DELAM, CRACKING & CRACKING W / EFFLOR & SPALLING W / REBAR EXPOSED THROUGHOUT SOFFIT. MINOR SECTION LOSS ON EXPOSED REBAR.

RAIL - MINOR RUST ON RAIL. MINOR DELAM, CRACKING, SCALING & SPALLING W / REBAR EXPOSED AT VARIOUS LOCATIONS THROUGHOUT CURBS. MINOR IMPACT DAMAGE TO RAIL & POST AT PIER 7 LT. SIDE & ABUTMENT 9 LT. SIDE.

SLIDE PLATES & FINGER JOINTS - GOOD
WPW & BAB 8/24/2022

59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

5 BEAM PAINTED STEEL MULTI BEAM - MODERATE BUBBLING & PEELING OF PAINT THROUGHOUT BEAMS. MODERATE SURFACE & FRECKLED RUST THROUGHOUT BEAMS. MODERATE RUST & MINOR SECTION LOSS AT VARIOUS LOCATIONS THROUGHOUT BEAMS. MINOR TO MODERATE RUST & SECTION LOSS ON BEAM 2 IN SPAN 3 (TOP FLANGE), BEAMS 4 & 5 IN SPAN 4 (TOP FLANGE) & BEAM 3 AT PIER 5 BK SIDE (END OF BEAM). HOLES RUSTED THRU DIAPHRAGMS ON BEAM 3 BK. & AHD SIDES AT PIER 5.

MOVEABLE BEARINGS - MINOR RUST ON BEARINGS AT PIERS 2 & 8. MINOR TO MODERATE RUST & PACK RUST ON BEARINGS AT ABUTMENTS 1 & 9 & PIER 5. BEARING ARE EXTENDED TO THE MAX AT ABUTMENTS 1 & 9.

FIXED BEARINGS - MINOR TO MODERATE RUST ON ALL BEARINGS.
WPW & BAB 8/24/2022

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

ABUTMENTS - MINOR CRACKING. MINOR DELAM & SPALLING W / REBAR EXPOSED IN BACK WALL BETWEEN BEAMS 2 & 3 AT ABUTMENT 1.

COLUMNS - MINOR CRACKING. MINOR SCALE AT FLOW LINE. SPALLS FROM GUNSHOT ON COL. 2 BK. SIDE. MINOR POPOUTS AT TIE HOLES.

CAPS - MINOR VERTICAL CRACKING. MODERATE VERTICAL CRACKING IN CAP 5 AHD SIDE. MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN CAP 3 BK FACE ON RT. SIDE AT BOTTOM & CAP 5 BK FACE IN CENTER & ON RT. END.
WPW & BAB 8/24/2022

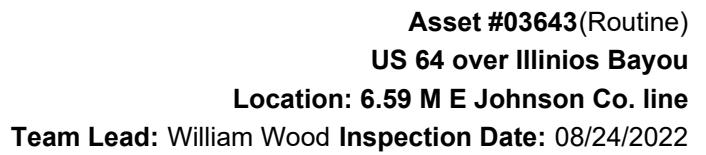
61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)
CLAY, GRAVEL & ROCK - NO UNDERWATER INSPECTION. UNDERWATER INSPECTION IS DONE BY HBM.
WPW & BAB 8/24/2022

8/30/2021 RWF & ADC Special inspection conducted this date using sonar. See other file for details.

113 - Scour Critical Bridges (4 - Bridge foundations determined to be stable for assessed or calculated scour conditions; field review indicates action is required to protect exposed foundations (see HEC 23).)
See Attached UW Consultant Report

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16559	8500	7370	689	0
1080	Delamination/Spall/Patched Area	SF	5980	0	5825	155	0
1090	Exposed Rebar	SF	76	0	0	76	0
1120	Efflorescence/Rust Staining	SF	125	0	125	0	0
1130	Cracking (RC and Other)	SF	1878	0	1420	458	0
<p>(12) MINOR TO MODERATE CRACKING THROUGHOUT DECK. MINOR DELAM, SCALING & SPALLING THROUGHOUT DECK. NUMEROUS PATCHED AREAS THROUGHOUT DECK. SEVERAL PATCHED AREAS HAVE MINOR TO MODERATE CRACKING IN THEM. MINOR TO MODERATE DELAM, CRACKING & CRACKING W / EFFLOR & SPALLING W / REBAR EXPOSED THROUGHOUT SOFFIT. MINOR SECTION LOSS ON EXPOSED REBAR. WPW & BAB 8/24/2022</p> <p>KRM & MLM 8/5/2020 Deck has several spalls and exposed reinforcing steel in the left lane, District crews were deck patching the right lane during the inspection. They will continue to patch the left lane so State wide crews can do a polymer overlay in September. There will be a deck grid drawn up and saved in the asset of all the patches. Soffits have cracks with efflorescence, spalls with exposed reinforcing steel and a few delaminated areas.</p>							
107	Steel Open Girder/Beam	LF	2790	0	2770	20	0
1000	Corrosion	LF	2790	0	2770	20	0
515	Steel Protective Coating	SF	24357	4000	12325	7442	590
3420	Peeling/Bubbling/Cracking	LF	4325	0	3325	1000	0
3440	Effectiveness (Steel Protective Coatings)	LF	16032	0	9000	6442	590
<p>(107) MODERATE BUBBLING & PEELING OF PAINT THROUGHOUT BEAMS. MODERATE SURFACE & FRECKLED RUST THROUGHOUT BEAMS. MODERATE RUST & MINOR SECTION LOSS AT VARIOUS LOCATIONS THROUGHOUT BEAMS. MINOR TO MODERATE RUST & SECTION LOSS ON BEAM 2 IN SPAN 3 (TOP FLANGE), BEAMS 4 & 5 IN SPAN 4 (TOP FLANGE) & BEAM 3 AT PIER 5 BK SIDE (END OF BEAM). HOLES RUSTED THRU DIAPHRAGMS ON BEAM 3 BK. & AHD SIDES AT PIER 5. WPW & BAB 8/24/2022</p> <p>KRM & MLM 8/5/2020 Girders have minor to moderate rust throughout structure, splice plates have corrosion with section in the top flanges. Span 4 girder 5 has moderate section loss in top flange at the first splice plate. Bent 5 span 4 girder 3 has approximately 1/4" section loss in the haunch area. The web is 5/8" thick. Also web at diaphragm connection has 3/16" section loss. Protective coating has lost its effectiveness, needs to be painted.</p>							
205	Reinforced Concrete Column	EA	7	0	6	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
<p>(205) MINOR CRACKING. MINOR SCALE AT FLOW LINE. SPALLS FROM GUNSHOT ON COL. 2 BK. SIDE. MINOR POPOUTS AT TIE HOLES. WPW & BAB 8/24/2022</p>							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
KRM & MLM 8/5/2020 Columns have abrasion along water line.							
215	Reinforced Concrete Abutment	LF	86	80	4	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
(215) MINOR CRACKING. MINOR DELAM & SPALLING W / REBAR EXPOSED IN BACK WALL BETWEEN BEAMS 2 & 3 AT ABUTMENT 1. WPW & BAB 8/24/2022							
KRM & MLM 8/5/2020 Bent 1 has exposed reinforcing steel between girders 2 and 3.							
220	Reinforced Concrete Pile Cap/Footing	LF	36	0	18	18	0
6000	Scour	LF	36	0	18	18	0
225	Steel Pile	EA	7	0	0	7	0
1000	Corrosion	EA	7	0	0	7	0
234	Reinforced Concrete Pier Cap	LF	196	150	23	23	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1090	Exposed Rebar	LF	2	0	0	2	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	35	0	20	15	0
(234) MINOR VERTICAL CRACKING. MODERATE VERTICAL CRACKING IN CAP 5 AHD SIDE. MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN CAP 3 BK FACE ON RT. SIDE AT BOTTOM & CAP 5 BK FACE IN CENTER & ON RT. END. WPW & BAB 8/24/2022							
KRM & MLM 8/5/2020 Caps have vertical cracks some with efflorescence. Bent 5 back side has a large spall with exposed reinforcing steel with section loss.							
305	Assembly Joint without Seal	LF	84	84	0	0	0
(305) GOOD WPW & BAB 8/24/2022							
KRM & MLM 8/5/2020 No notable defects at this inspection.							
Slide plate joints at abutments and finger joint over pier #5.							
311	Movable Bearing	EA	30	0	10	20	0
1000	Corrosion	EA	20	0	10	10	0
2220	Alignment	EA	10	0	0	10	0
515	Steel Protective Coating	SF	90	0	0	63	27
3440	Effectiveness (Steel Protective Coatings)	EA	90	0	0	63	27
(311) MINOR RUST ON BEARINGS AT PIERS 2 & 8. MINOR TO MODERATE RUST & PACK RUST ON BEARINGS AT ABUTMENTS 1 & 9 & PIER 5. BEARING ARE EXTENDED							



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
TO THE MAX AT ABUTMENTS 1 & 9. WPW & BAB 8/24/2022							
KRM & MLM 8/5/2020 Movable bearings at both abutments are at full tilt.The rest have minor corrosion.							
313	Fixed Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0
515	Steel Protective Coating	SF	40	0	20	20	0
3440	Effectiveness (Steel Protective Coatings)	EA	40	0	20	20	0
(313) MINOR TO MODERATE RUST ON ALL BEARINGS. WPW & BAB 8/24/2022							
KRM & MLM 8/5/2020 Bearings have minor corrosion.							
330	Metal Bridge Railing	LF	1122	525	597	0	0
1000	Corrosion	LF	581	0	581	0	0
7000	Damage	LF	16	0	16	0	0
515	Steel Protective Coating	SF	3366	1566	1000	800	0
3440	Effectiveness (Steel Protective Coatings)	LF	1800	0	1000	800	0
(330) MINOR RUST ON RAIL. MINOR DELAM, CRACKING, SCALING & SPALLING W / REBAR EXPOSED AT VARIOUS LOCATIONS THROUGHOUT CURBS. MINOR IMPACT DAMAGE TO RAIL & POST AT PIER 7 LT. SIDE & ABUTMENT 9 LT. SIDE. WPW & BAB 8/24/2022							
KRM & MLM 8/5/2020 Metal rail has corrosion scattered throughout.							



Cover Photo



Elevation



Inventory



Typ. Condition of Deck.



Typ. Condition of Soffit.



Typ. Cracking in Deck.



Typ. Delam & Spalling in Deck.



Typ. Scale in Gutters & Patched Areas in Gutters. Rt. Side.
Spans 3 & 5.



Typ. Condition of Patched Areas.



Typ. Delam & Spalling in Gutter. Rt. Side.



Typ. Delam & Spalling at Saw Joints in Span 7.



Typ. Condition of Old Patches. Span 8



Typ. Cracking in Patched Areas. Span 8



Typ. Cracking in Patched Areas. Span 8



Delam & Spalling in Overhang Span 1 Rt. Side at Saw Joint.



Typ. Rust & Section Loss on End of Beam 3 Pier 5 Bk. Side.
Up to 3/8" Section Loss on Lower Web at Diaphragm
Connection



Impact Damage to Rail & Post at Pier 7 Lt. Side.



Impact Damage to Rail & Post at Abutment 9 Lt. Side.



Typ. Delam & Spalling W / Rebar Exposed in Curbs.

Maintenance Needs

Date Reported: 08/14/2012

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

8/5/2020 Span 4 girder 5 has moderate section loss in top flange at the first splice plate. Bent 5 span 4 girder 3 has approximately 1/4" section loss in the haunch area. The web is 5/8" thick. Also web at diaphragm connection has 3/16" section loss. Protective coating has lost its effectiveness.

Steel beams, some in all spans.
Bearings at Abutments & Pier 5

Bare metal is exposed. surface and freckled rust is common on Beams.
Minor to Moderate Rust & Pack Rust on
Bearings.

Remarks



Typ. Rust on Bearings.



Typ. Rust on Beams.



Span 4 girder 5 has moderate section loss in top flange at the first splice plate.



Bent 5 span 4 girder 3 has approximately 1/4" section loss in the haunch area. The web is 5/8" thick. Also web at diaphragm connection has 3/16" section loss.

Maintenance Needs

Date Reported: 08/14/2012

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Bridge deck, all spans.

Minor to Moderate Delam, Cracking & Spalling W / Rebar Exposed.

Remarks



Typ. Cracking in Deck.



Typ Patched Areas & Spalling in Deck.



Typ. Patched Areas & Spalling Areas in Deck.

Maintenance Needs

Date Reported: 08/07/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Movable bearings at both abutments are at full tilt.

Remarks



Bent 1 bearings are full of pack rust and are fully tilted.



Moveable bearings at bent 8 are fully extended.



Asset #03643(Routine)

US 64 over Illinios Bayou

Location: 6.59 M E Johnson Co. line

Team Lead: William Wood **Inspection Date:** 08/24/2022

Maintenance Needs

Date Reported: 12/07/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Substructure

Deficiency Description

Scour should be monitored during and after flood events. Install engineered scour countermeasures at Piers 2, 5, and 6, to protect piers from further scour and undermining. The next underwater inspection should be performed at an interval not to exceed 60 months. See UW Inspection Report

Remarks

Maintenance Needs

Date Reported: 08/14/2012

Priority: D- Routine

Status: Monitor

Type of Work: (Inactive) (Inactive) 9 - None

Component:

Deficiency Description

Underside of bridge deck.
Spalling w / rebar exposed.

Span # 2, between beam #s 1 & 2.
Span # 4, on each side of beam # 6.
Span # 5, between beam #s 2 & 3
Span # 7, between beam #s 1 & 2
Span # 8, between beam #s 1 & 2, and beam #s 3 & 4

Remarks



02/16/2020

Typ. Spalling in Soffit.

Maintenance Needs

Date Reported: 08/07/2020

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bent 5 back side has a large spall with exposed reinforcing steel with section loss.

Remarks



Bent 5 back side has a large spall with exposed reinforcing steel with section loss.



Asset #03643(Routine)

US 64 over Illinios Bayou

Location: 6.59 M E Johnson Co. line

Team Lead: William Wood Inspection Date: 08/24/2022

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	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



Asset #03643(Routine)

US 64 over Illinios Bayou

Location: 6.59 M E Johnson Co. line

Team Lead: William Wood Inspection Date: 08/24/2022

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

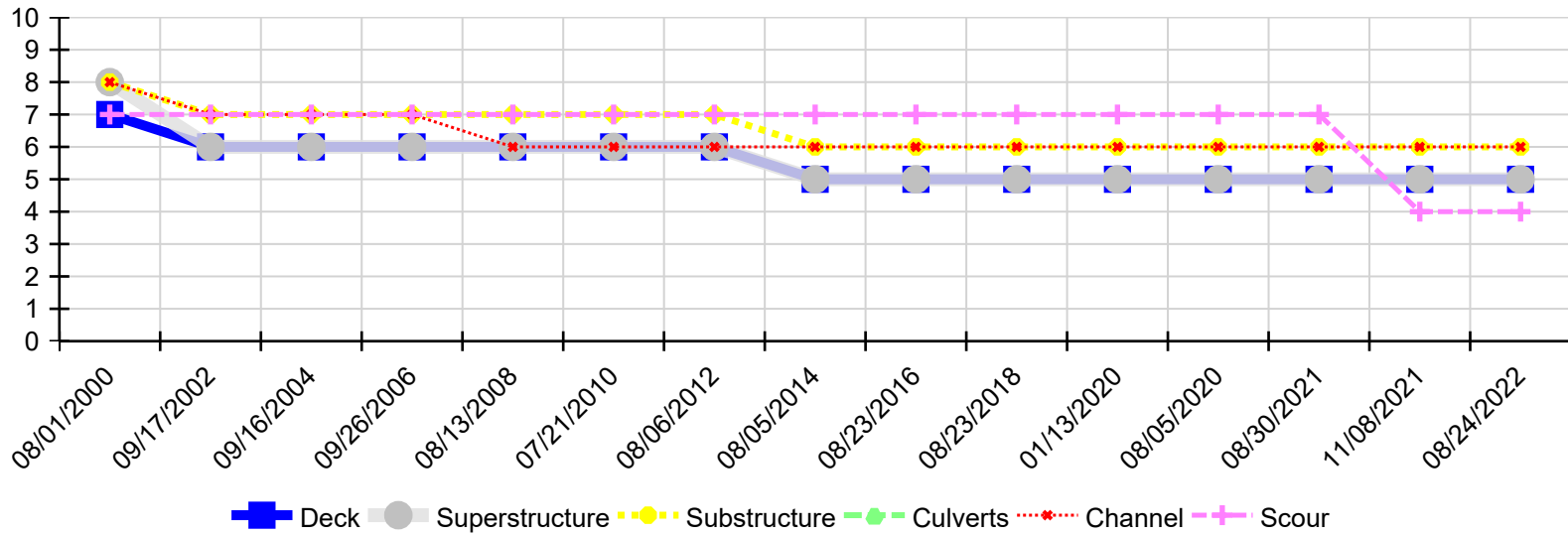
A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/24/2022	5	5	6	N	6	4
11/08/2021	5	5	6	N	6	4
08/30/2021	5	5	6	N	6	7
08/05/2020	5	5	6	N	6	7
01/13/2020	5	5	6	N	6	7
08/23/2018	5	5	6	N	6	7
08/23/2016	5	5	6	N	6	7
08/05/2014	5	5	6	N	6	7
08/06/2012	6	6	7	N	6	7
07/21/2010	6	6	7	N	6	7
08/13/2008	6	6	7	N	6	7
09/26/2006	6	6	7	N	7	7
09/16/2004	6	6	7	N	7	7
09/17/2002	6	6	7	N	7	7
08/01/2000	7	8	8	N	8	7