



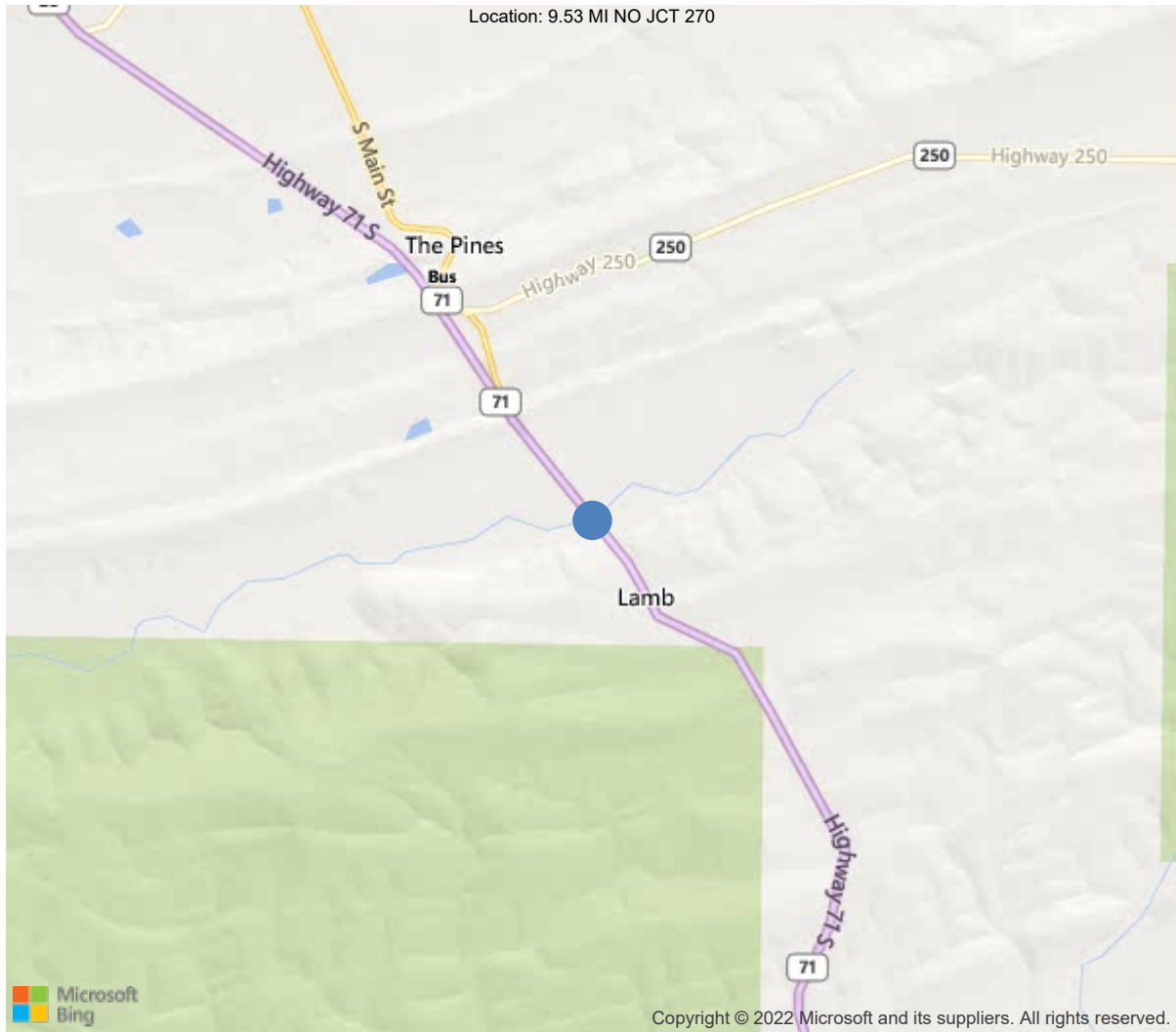
Latitude:34.84682, Longitude:-94.05829

Route:71 Section:10 Log:17.507

Arnold Road ID:63x71x10xA, Arnold Log mile:17.423

District 04, 127 - Scott County

Owner: 1 - State Highway Agency



34.84682, -94.05829



Asset #05999(Routine)

# US Highway 71 over Ross Creek-Scott Co.

Location: 9.53 MI NO JCT 270

Team Lead: Jeff Jones, Inspection Date: 04/12/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05999
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	127 - Scott County
(4) Place Code	0
(6) Features Intersected	Ross Creek-Scott Co.
(7) Facility Carried	US Highway 71
(9) Location	9.53 MI NO JCT 270
(11) Mile Point	17.507 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000071100
(16) Latitude	34.84682
(17) Longitude	-94.05829
(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	5
(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	1984
(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	4700
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	88 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	150 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)	40 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	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 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(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	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(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	7
(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	5856
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/12/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	Yes		12/04/2001
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			





Asset #05999(Routine)

District: 04, County: 127

Team Lead: Jeff Jones, Inspection Date: 04/12/2021

#### A-46 - Asset Files

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#### General Observation (False)

04/12/2021 -JCJ & TJL - Routine Inspection conducted this date.

04/24/2019 - EJW & JCJ - Underwater inspection - Wading and probing indicates that Bent 3, Lt & Rt column and Bent 4 Lt column have the top of footings exposed with no apparent scour problems at this inspection.

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Asset #05999(Routine)

US Highway 71 over Ross Creek-Scott Co.

Location: 9.53 MI NO JCT 270

Team Lead: Jeff Jones, Inspection Date: 04/12/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	7025	4277	2501	247	0
1080	Delamination/Spall/Patched Area	SF	47	0	47	0	0
1090	Exposed Rebar	SF	7	0	0	7	0
1120	Efflorescence/Rust Staining	SF	38	0	38	0	0
1130	Cracking (RC and Other)	SF	256	0	16	240	0
1190	Abrasion/Wear (PSC/RC)	SF	2400	0	2400	0	0
(38) -Longitudinal cracks in all spans near centerline visible on driving surface of the deck. -Diagonal / vertical cracking in the corners of the slab over the intermediate bents typical. -There is transverse hairline cracking in Span # 2 adjacent to Bent # 3 visible from the driving surface.  Slab Soffit: -Longitudinal hairline cracks with stains, delaminated areas, and up to 18" spalls with exposed reinforcing steel visible from the undersurface of the deck located approximately 1' from both edges of the deck. -Cracking with light efflorescence in areas on the undersurface of the slab along the centerline of the structure.							
205	Reinforced Concrete Column	EA	12	6	6	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(205) -Light abrasion at the base of columns in the channel.							
215	Reinforced Concrete Abutment	LF	128	128	0	0	0
(215) -No apparent problems with the abutments during this inspection.  -Concrete mud sill placed in front of the abutment caps have minor erosion with cracks and settlement along the edges.							
220	Reinforced Concrete Pile Cap/Footing	LF	60	60	0	0	0
(220) -Bent # 3, Right and Left columns and Bent # 4 Left column have the top of footings exposed with no apparent scour problems during this inspection.							
234	Reinforced Concrete Pier Cap	LF	190	145	34	11	0
1080	Delamination/Spall/Patched Area	LF	25	0	22	3	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	5	0	3	2	0
1130	Cracking (RC and Other)	LF	9	0	9	0	0
(234) -There are several delaminated areas in the substructure caps. -There are spalled areas with exposed reinforcing steel visible from the undersurface of the caps typical.  Noteworthy deficiencies are located below: -Bent # 2 Left of Column # 1 and between Columns # 2 & 3. -Bent # 3 has vertical cracks between the columns and a vertical crack with efflorescence over the Left column. -Bent # 4 between Columns # 1 & 2. Exposed reinforcing steel has up to initial section loss with active corrosion. -Bent # 5 has a vertical crack with efflorescence over the Left column.							
301	Pourable Joint Seal	LF	176	0	120	56	0

**Asset #05999(Routine)**

## US Highway 71 over Ross Creek-Scott Co.

**Location: 9.53 MI NO JCT 270**

**Team Lead:** Jeff Jones, **Inspection Date:** 04/12/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2310	Leakage	LF	120	0	120	0	0
2350	Debris Impaction	LF	56	0	0	56	0
(301) -Deck joint sealant appears to be replaced with CrafCo asphalt crack sealant at the intermediate bent joints in the main lanes. -Stains on substructure caps indicate that the joints still leak during this inspection.							
331	Reinforced Concrete Bridge Railing	LF	300	289	10	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(331) -Vertical cracks with shallow spalls and exposed reinforcing steel at the base of the rails.							

## US Highway 71 over Ross Creek-Scott Co.

**Location: 9.53 MI NO JCT 270**

**Team Lead: Jeff Jones, Inspection Date: 04/12/2021**

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	7025	4277	2501	247	0
1080	Delamination/Spall/Patched Area	SF	47	0	47	0	0
1090	Exposed Rebar	SF	7	0	0	7	0
1120	Efflorescence/Rust Staining	SF	38	0	38	0	0
1130	Cracking (RC and Other)	SF	256	0	16	240	0
1190	Abrasion/Wear (PSC/RC)	SF	2400	0	2400	0	0
(38) -Longitudinal cracks in all spans near centerline visible on driving surface of the deck. -Diagonal / vertical cracking in the corners of the slab over the intermediate bents typical. -There is transverse hairline cracking in Span # 2 adjacent to Bent # 3 visible from the driving surface.							
<b>Slab Soffit:</b> -Longitudinal hairline cracks with stains, delaminated areas, and up to 18” spalls with exposed reinforcing steel visible from the undersurface of the deck located approximately 1' from both edges of the deck. -Cracking with light efflorescence in areas on the undersurface of the slab along the centerline of the structure.							





Asset #05999(Routine)

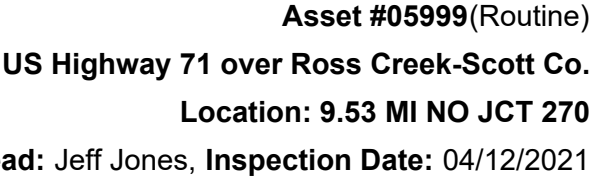
US Highway 71 over Ross Creek-Scott Co.

Location: 9.53 MI NO JCT 270

Team Lead: Jeff Jones, Inspection Date: 04/12/2021

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	6	6	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(205) -Light abrasion at the base of columns in the channel.							
215	Reinforced Concrete Abutment	LF	128	128	0	0	0
(215) -No apparent problems with the abutments during this inspection.							
-Concrete mud sill placed in front of the abutment caps have minor erosion with cracks and settlement along the edges.							
220	Reinforced Concrete Pile Cap/Footing	LF	60	60	0	0	0
(220) -Bent # 3, Right and Left columns and Bent # 4 Left column have the top of footings exposed with no apparent scour problems during this inspection.							
234	Reinforced Concrete Pier Cap	LF	190	145	34	11	0
1080	Delamination/Spall/Patched Area	LF	25	0	22	3	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	5	0	3	2	0
1130	Cracking (RC and Other)	LF	9	0	9	0	0
(234) -There are several delaminated areas in the substructure caps.							
-There are spalled areas with exposed reinforcing steel visible from the undersurface of the caps typical.							
Noteworthy deficiencies are located below:							
-Bent # 2 Left of Column # 1 and between Columns # 2 & 3.							
-Bent # 3 has vertical cracks between the columns and a vertical crack with efflorescence over the Left column.							
-Bent # 4 between Columns # 1 & 2.							
Exposed reinforcing steel has up to initial section loss with active corrosion.							
-Bent # 5 has a vertical crack with efflorescence over the Left column.							



Asset #05999(Routine)

US Highway 71 over Ross Creek-Scott Co.

Location: 9.53 MI NO JCT 270

Team Lead: Jeff Jones, Inspection Date: 04/12/2021

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Elevation. East side of structure.



Approach roadway facing South.



Driving surface of the deck. Typical.



Slab soffit. Typical.





Typical joint seal.



Span # 2 Lt spalling with exposed reinforcing steel.



Bent # 3 Lt cap crack with efflorescence buildup.



Clean ed gutters





Typical driving surface of the slab.



Span # 5 Rt concrete delamination along the edge of the slab.



Southeast approach rail damage.



Bent # 2 Lt spalling with exposed reinforcing steel on the undersurface of the slab.





Elevation



Longitudinal cracks on the driving surface of the slab.



Span # 2 cracking with efflorescence on the undersurface.



Roadway





Bent # 2 spalling with exposed reinforcing steel.



Driving surface of the deck. Typical.



Transverse cracking in Span # 2 adjacent to Bent # 3.



Longitudinal cracking with efflorescence in Span # 2.





Spalls with exposed reinforcing steel in the Left edge of Span # 2.



Left edge of Span # 5. Spalling with exposed reinforcing steel.



Light abrasion at the base of columns in the channel.



Bent # 1. Typical.





Bent # 6. Typical.



Top of footing is exposed at Bent # 3. Right column.



Spalls with exposed reinforcing in the undersurface of bent #  
2.



Bent # 3. Typical.





Deck joint sealant over bent # 3.



Staining in the intermediate caps from leaking joints.



Right bridge railing. Typical.



Spall with exposed reinforcing steel at the base of parapet.  
Span # 4. Right.



**Asset #05999**(Routine)

**US Highway 71 over Ross Creek-Scott Co.**

**Location: 9.53 MI NO JCT 270**

**Team Lead:** Jeff Jones, **Inspection Date:** 04/12/2021

#### **Maintenance Needs**

**Date Reported:** 09/26/2011  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

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#### **Deficiency Description**

Deck Joints

Deck joint sealant is deteriorated and leaks water on the bent caps.

#### **Remarks**

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**Asset #05999(Routine)**

**US Highway 71 over Ross Creek-Scott Co.**

**Location: 9.53 MI NO JCT 270**

**Team Lead: Jeff Jones, Inspection Date: 04/12/2021**



Typical joint seal.



Deck joint sealant over bent # 5.



Staining on intermediate bent caps from leaking joint sealant.



**Asset #05999**(Routine)

**US Highway 71 over Ross Creek-Scott Co.**

**Location: 9.53 MI NO JCT 270**

**Team Lead:** Jeff Jones, **Inspection Date:** 04/12/2021

**Date Reported:** 07/11/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

---

#### **Deficiency Description**

Substructure

The intermediate bent caps have delaminated areas and shallow spalling with exposed reinforcing steel from apparent joint leakage.

#### **Remarks**

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Bent # 2 Left spalling with exposed reinforcing steel on the undersurface of the slab.



Bent # 2 spalling with exposed reinforcing steel.





Spalls with exposed reinforcing steel in bent # 2 cap.



Spalls with exposed reinforcing steel in bent # 4. Left.

**Date Reported:** 07/11/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Approach

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**Deficiency Description**

Southeast approach railing

The southeast approach railing has light collision damage.

**Remarks**

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Southeast approach rail damage.



Collision damage in the southeast approach railing.



**Date Reported:** 07/11/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

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**Deficiency Description**

Deck

The driving surface of the slab span has sealable cracking in all spans.

**Remarks**

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Longitudinal cracks on the driving surface of the slab.



Sealable longitudinal cracking in the deck.



**Asset #05999**(Routine)

**US Highway 71 over Ross Creek-Scott Co.**

**Location: 9.53 MI NO JCT 270**

**Team Lead:** Jeff Jones, **Inspection Date:** 04/12/2021

**Date Reported:** 07/11/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

---

### Deficiency Description

Superstructure

The undersurface of the slab on both exterior edges has cracks, delaminated areas, and spalls with exposed reinforcing steel.

The end of Span # 3 over Bent # 3 has a vertical crack in the Right exterior face that is beginning to spall.

### Remarks

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Span # 2 Left has spalling with exposed reinforcing steel.



Longitudinal cracks with stains, delaminated areas, and softball sized spalls with exposed reinforcing steel visible from the undersurface of the deck, located approximately 1' from both edges of the deck. Span # 2 Left pictured.





Left edge of deck soffit. Spalls with exposed reinforcing steel.



Left edge of Span # 5. Slab soffit has spalling with exposed reinforcing steel.



**Asset #05999**(Routine)

**US Highway 71 over Ross Creek-Scott Co.**

**Location: 9.53 MI NO JCT 270**

**Team Lead:** Jeff Jones, **Inspection Date:** 04/12/2021

## **Routine Maintenance**

Check Box Maintenance Items

<b>Data Field</b>	<b>Value</b>
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	





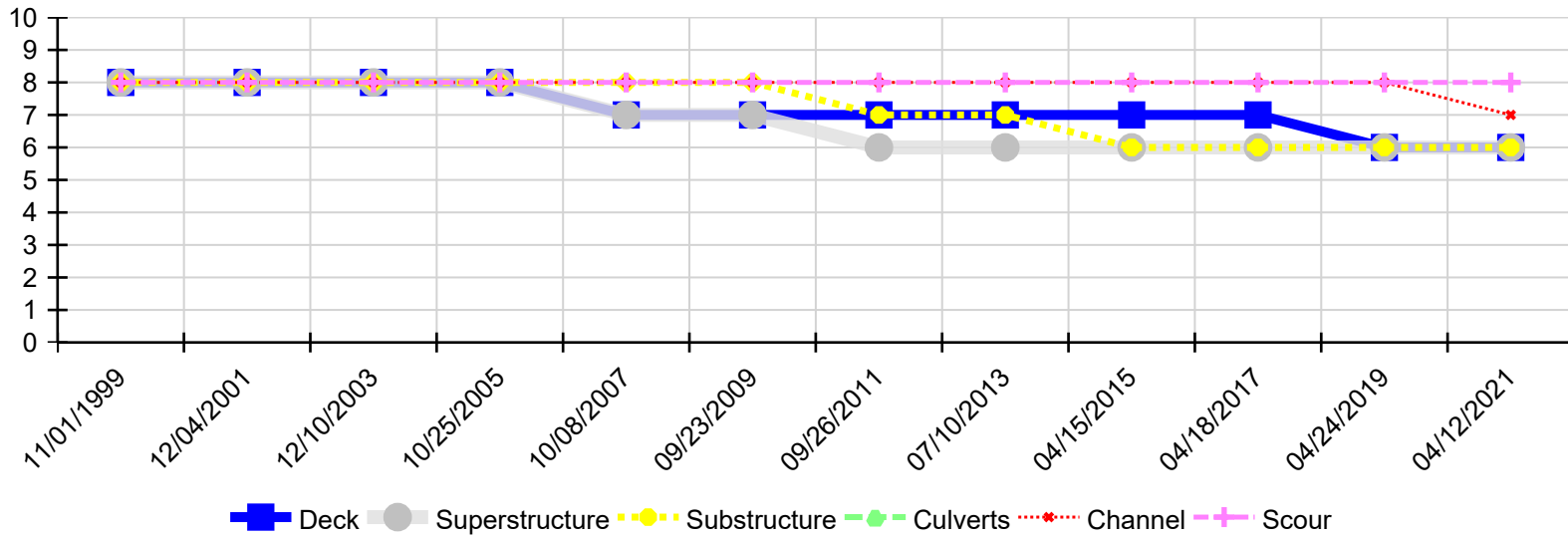
Asset #05999(Routine)

US Highway 71 over Ross Creek-Scott Co.

Location: 9.53 MI NO JCT 270

Team Lead: Jeff Jones, Inspection Date: 04/12/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/12/2021	6	6	6	N	7	8
04/24/2019	6	6	6	N	8	8
04/18/2017	7	6	6	N	8	8
04/15/2015	7	6	6	N	8	8
07/10/2013	7	6	7	N	8	8
09/26/2011	7	6	7	N	8	8
09/23/2009	7	7	8	N	8	8
10/08/2007	7	7	8	N	8	8
10/25/2005	8	8	8	N	8	8
12/10/2003	8	8	8	N	8	8
12/04/2001	8	8	8	N	8	8
11/01/1999	8	8	8	N	8	8