



# Alaska DOT&PF

Statewide Design and Engineering Services  
 Pavement Management and Preservation Office  
 5800 East Tudor Road, Anchorage AK 99507-1286

## Pavement Inspection Report Healy River Airport



Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Healy River Airport	-	PAHV	63° 52' 03" N	148° 58' 08" W	1,263

Please refer all questions or for further information about this report, please contact the AKDOT&PF Pavement Management and Preservation Office as follows:

Point of Contact	Phone	Email	Date Inspected	Date Published
Mr. Andrew Pavey, Pavement Management Engineer	(907) 269 6213	andrew.pavey@alaska.gov	June 2023	September 2023

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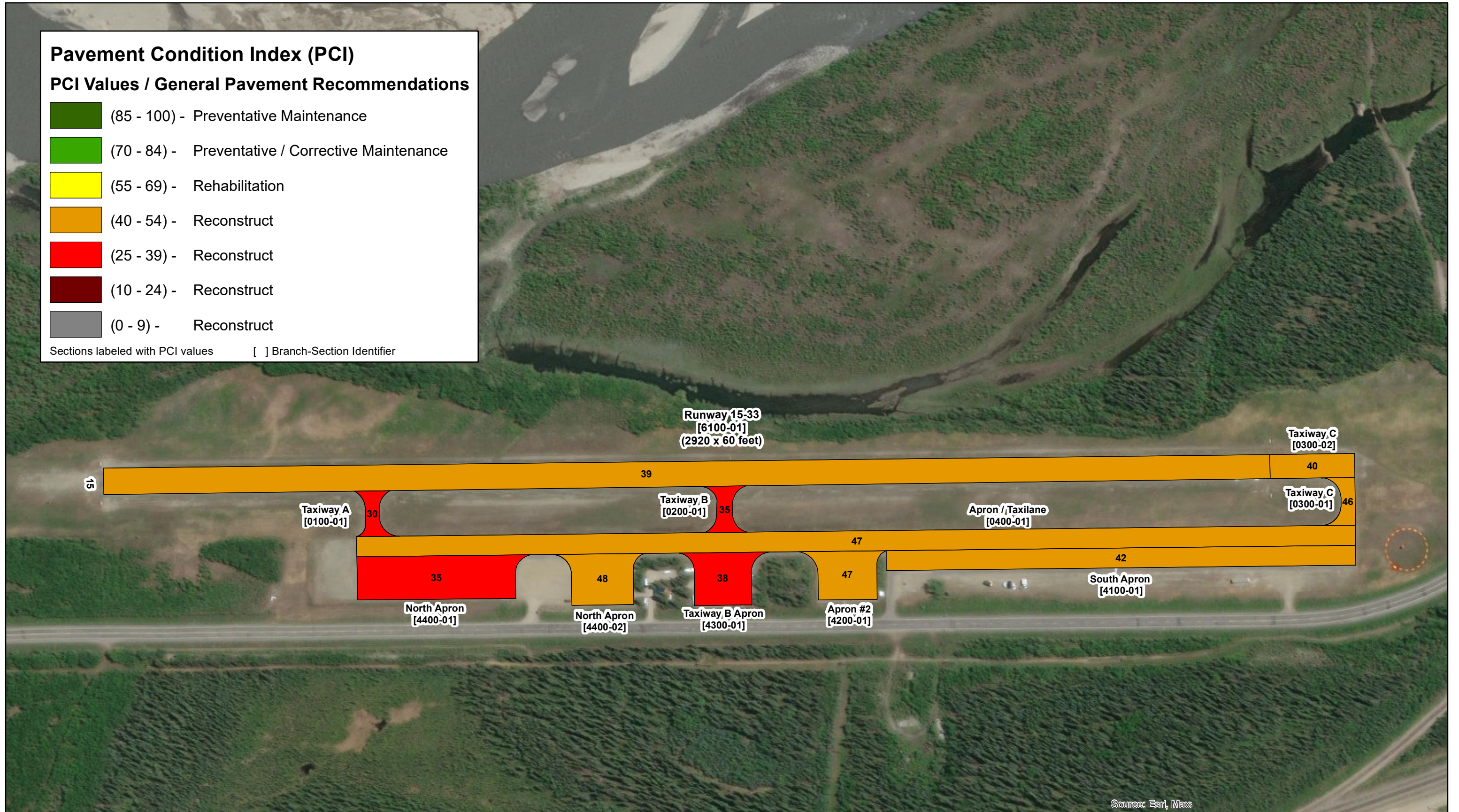
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### Pavement Condition Index (PCI)

#### PCI Values / General Pavement Recommendations

- (85 - 100) - Preventative Maintenance
- (70 - 84) - Preventative / Corrective Maintenance
- (55 - 69) - Rehabilitation
- (40 - 54) - Reconstruct
- (25 - 39) - Reconstruct
- (10 - 24) - Reconstruct
- (0 - 9) - Reconstruct

Sections labeled with PCI values [ ] Branch-Section Identifier



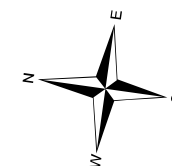
Source: Esri, Maxx

## Healy River Airport

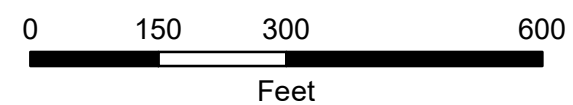
Airport Code: HRR  
Site Number: 50308.\*A

### Pavement Condition Index (PCI)

Target PCI Range for Runways: 70 to 100  
Target PCI Range for Taxiways and Aprons: 60 to 100



### 2023 Pavement Inspection Results

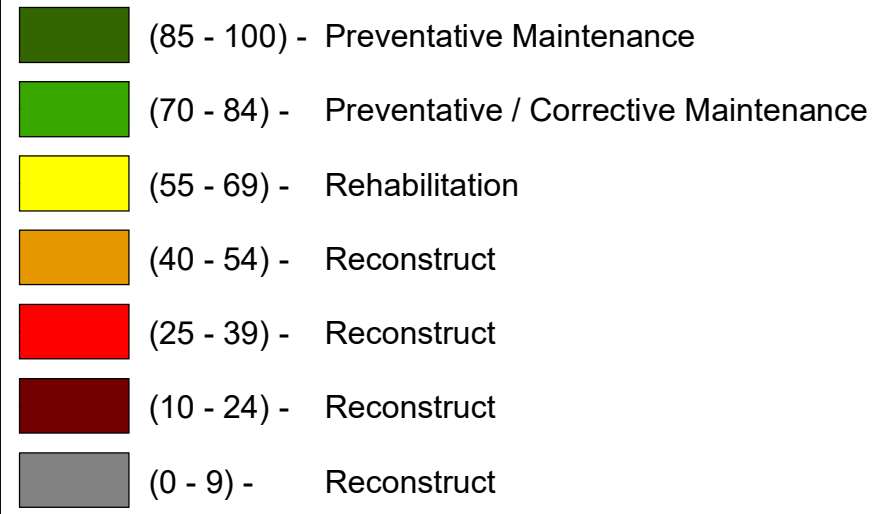


Map Created by  
State of Alaska DOT&PF

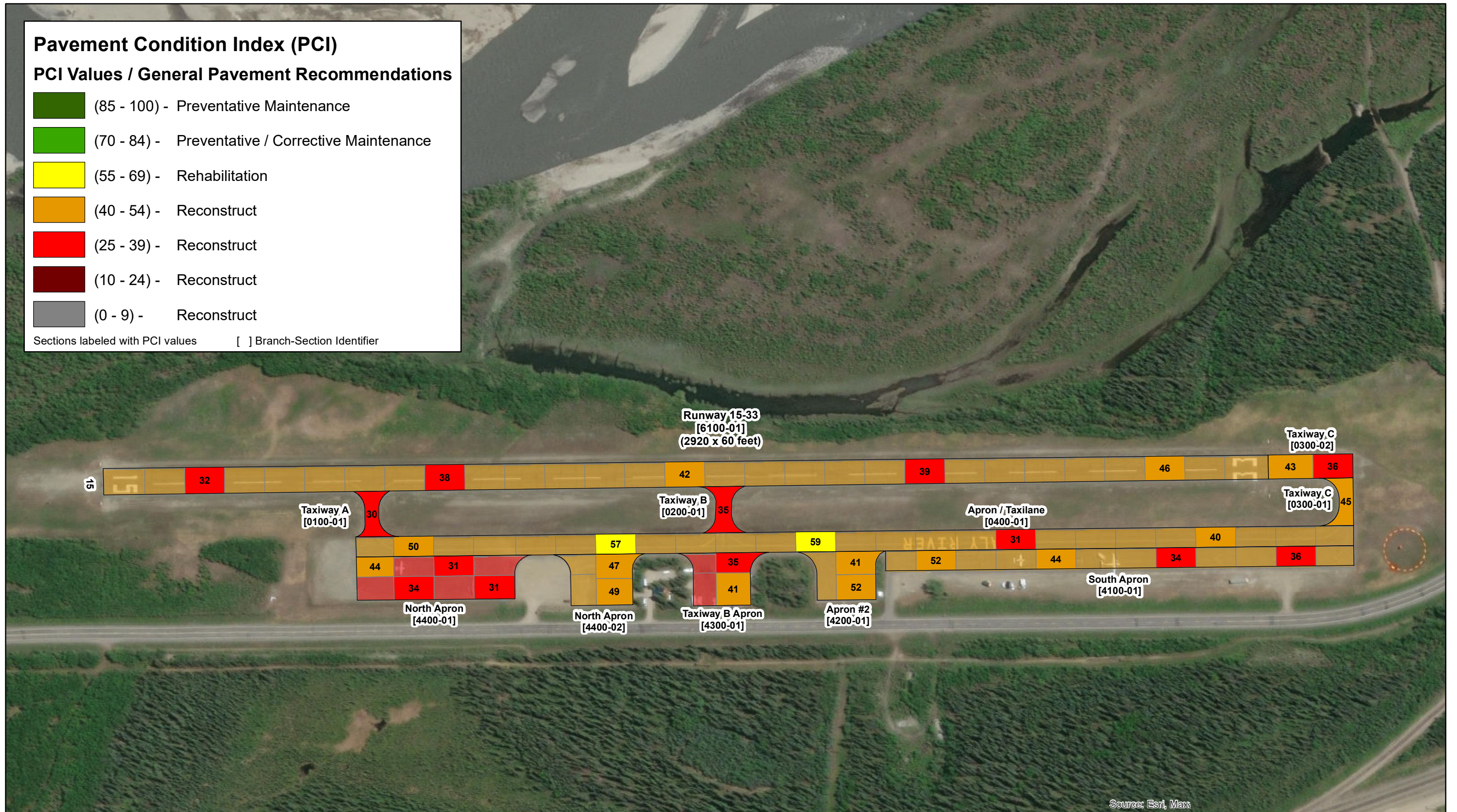
**Map 1 of 6**

# Pavement Condition Index (PCI)

## PCI Values / General Pavement Recommendations



Sections labeled with PCI values [ ] Branch-Section Identifier



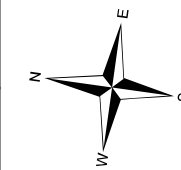
Source: Esri, Maxx

### Healy River Airport

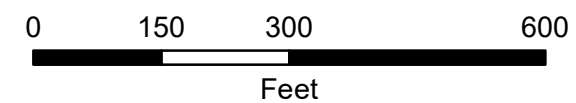
Airport Code: HRR  
Site Number: 50308.\*A

### Sample Unit Pavement Condition Index (PCI)

Target PCI Range for Runways: 70 to 100  
Target PCI Range for Taxiways and Aprons: 60 to 100



### 2023 Pavement Inspection Results










Map Created by  
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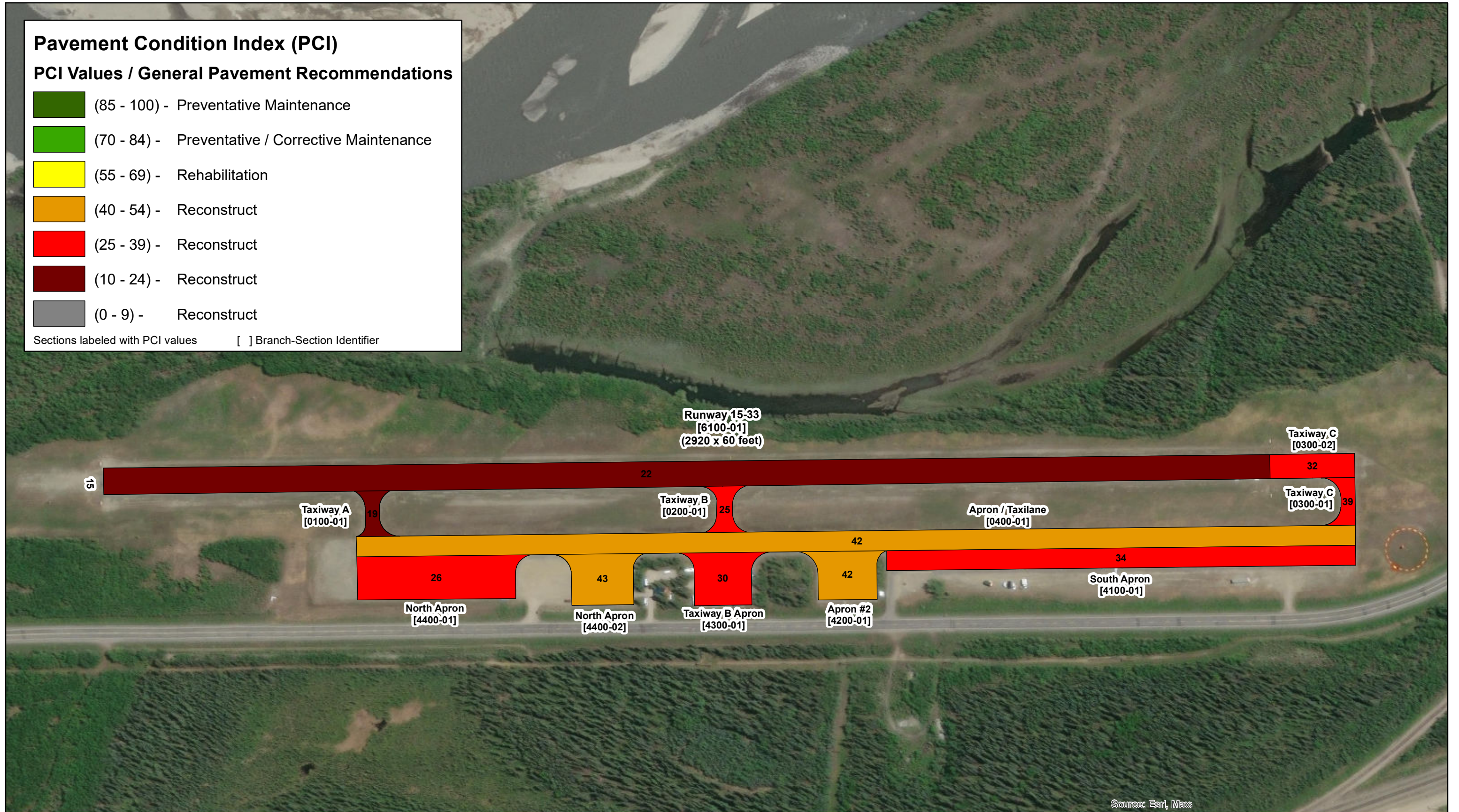
Map 2 of 6

# Pavement Condition Index (PCI)

## PCI Values / General Pavement Recommendations

	(85 - 100) - Preventative Maintenance
	(70 - 84) - Preventative / Corrective Maintenance
	(55 - 69) - Rehabilitation
	(40 - 54) - Reconstruct
	(25 - 39) - Reconstruct
	(10 - 24) - Reconstruct
	(0 - 9) - Reconstruct

Sections labeled with PCI values [ ] Branch-Section Identifier



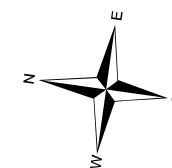
Source: Esri, Maxx

### Healy River Airport

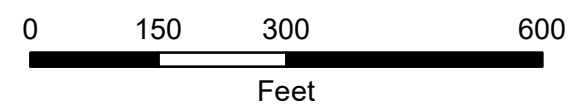
Airport Code: HRR  
Site Number: 50308.\*A

### 5 Year Predicted Pavement Condition Index (PCI)

Target PCI Range for Runways: 70 to 100  
Target PCI Range for Taxiways and Aprons: 60 to 100



### 2023 Pavement Inspection Results

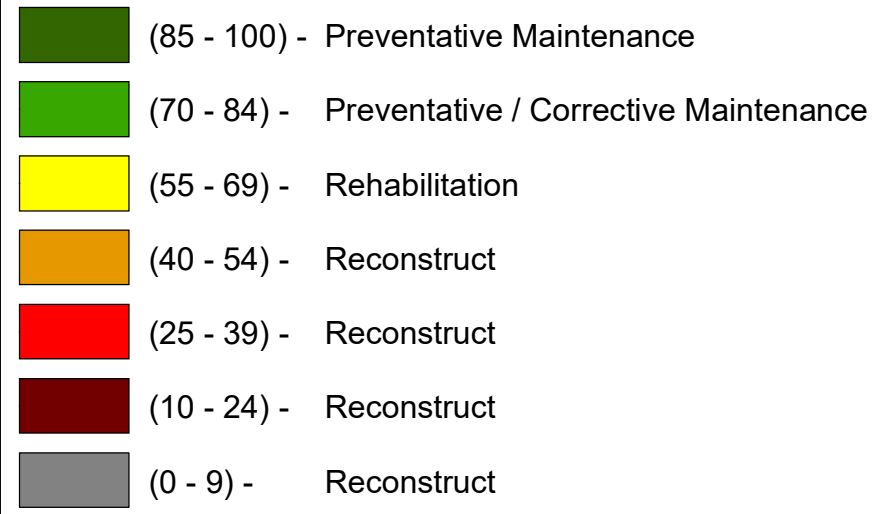


Map Created by  
State of Alaska DOT&PF

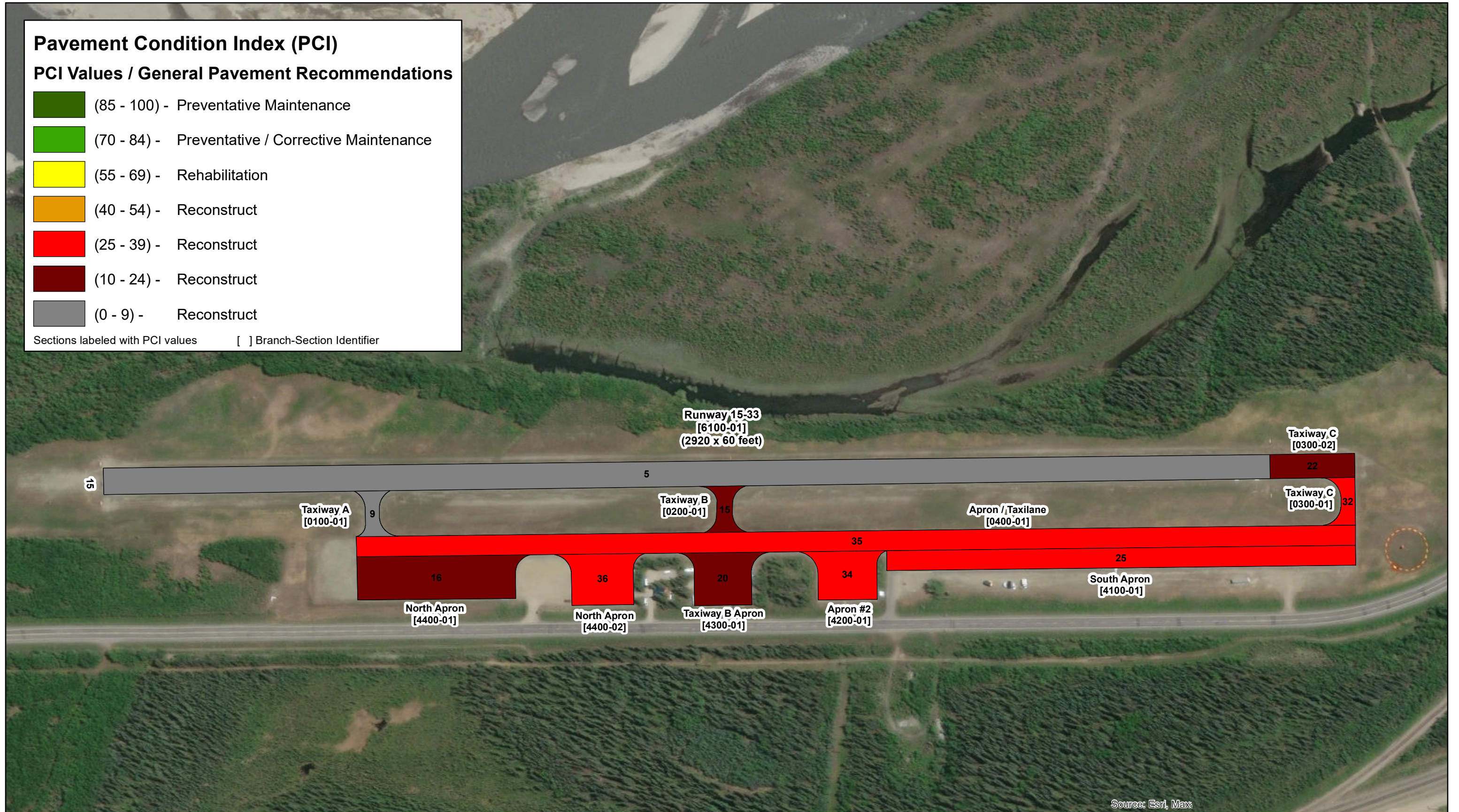
Map 3 of 6

### Pavement Condition Index (PCI)

#### PCI Values / General Pavement Recommendations



Sections labeled with PCI values [ ] Branch-Section Identifier



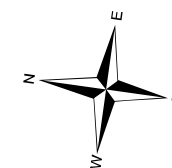
Source: Esri, Maxx

## Healy River Airport

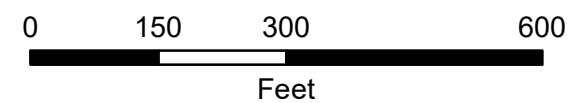
Airport Code: HRR  
Site Number: 50308.\*A

### 10 Year Predicted Pavement Condition Index (PCI)

Target PCI Range for Runways: 70 to 100  
Target PCI Range for Taxiways and Aprons: 60 to 100



### 2023 Pavement Inspection Results



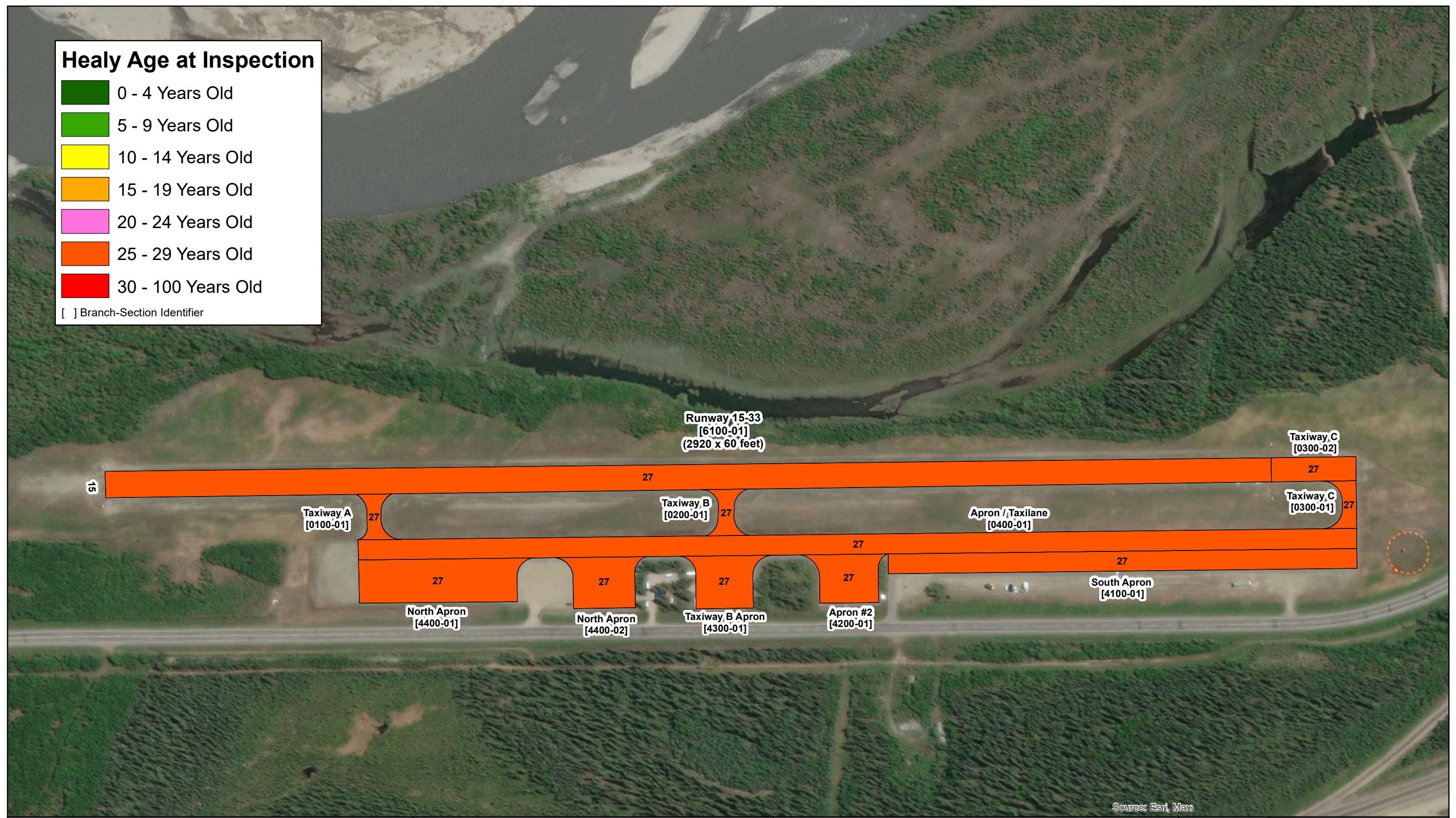
Map Created by  
State of Alaska DOT&PF

**Map 4 of 6**

### Healy Age at Inspection

- 0 - 4 Years Old
- 5 - 9 Years Old
- 10 - 14 Years Old
- 15 - 19 Years Old
- 20 - 24 Years Old
- 25 - 29 Years Old
- 30 - 100 Years Old

[ ] Branch-Section Identifier

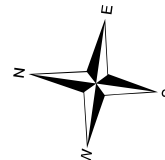


Source: Esri, Maxx

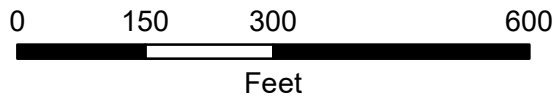
## Healy River Airport

Airport Code: HRR  
Site Number: 50308.\*A

### Pavement Age at Inspection



### 2023 Pavement Inspection Results

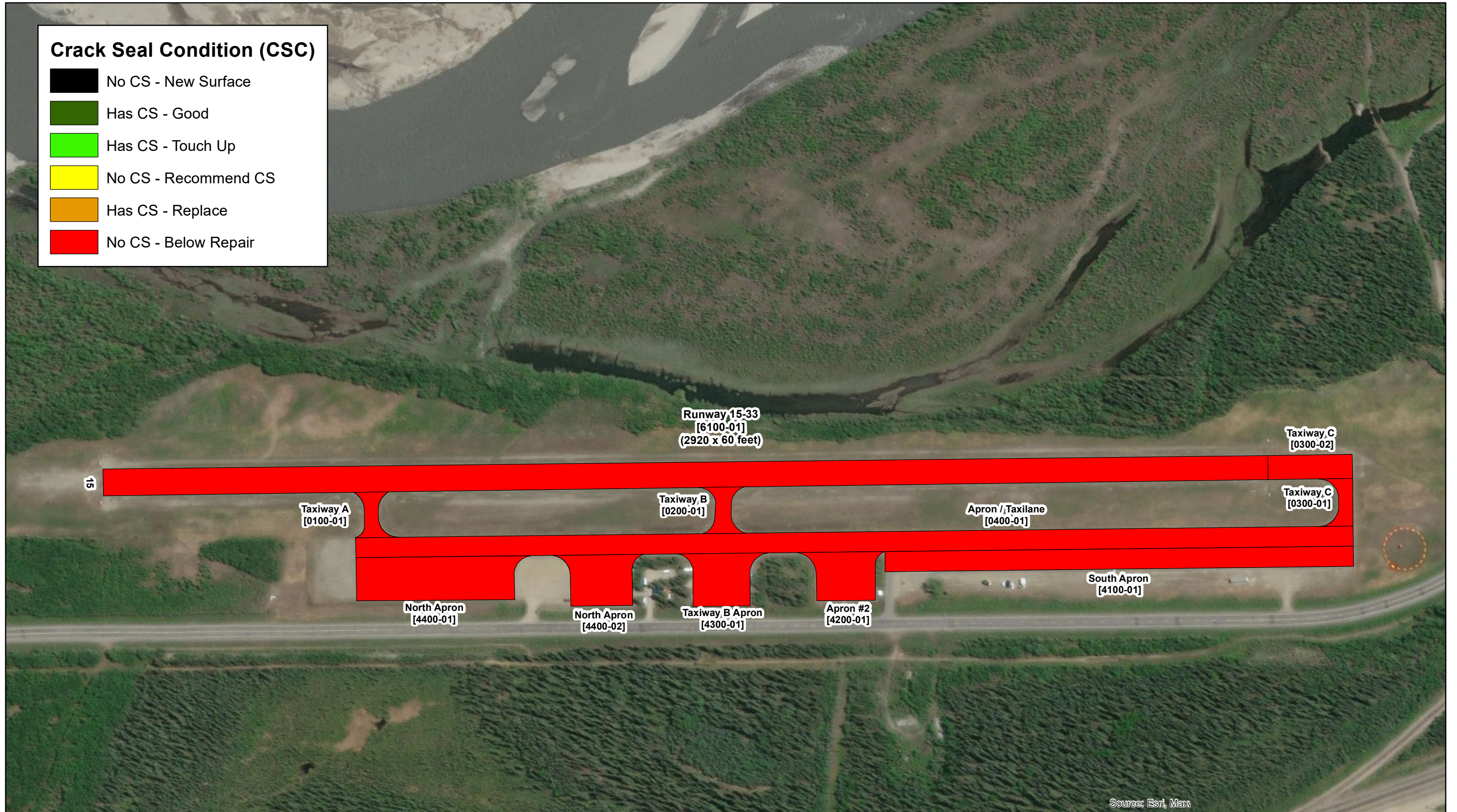


Map Created by  
State of Alaska DOT&PF

**Map 5 of 6**

**Crack Seal Condition (CSC)**

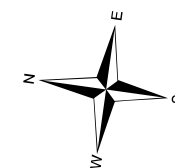
- No CS - New Surface
- Has CS - Good
- Has CS - Touch Up
- No CS - Recommend CS
- Has CS - Replace
- No CS - Below Repair



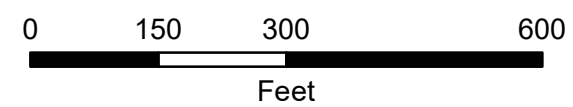
**Healy River Airport**

Airport Code: HRR  
Site Number: 50308.\*A

**Pavement Crack Seal Condition (CSC)**




**2023 Pavement Inspection Results**




Map Created by  
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**Map 6 of 6**


**AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH**

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0100	Taxiway A	Taxiway	1	5,394	30
					


Taxiway A was constructed in 1996. The most common distresses observed are low to high severity raveling, low to medium severity weathering, corrugation, low severity patching, low severity block cracking and medium severity longitudinal and transverse cracking.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0200	Taxiway B	Taxiway	1	6,189	35
					


Taxiway B was constructed in 1996. Observed distresses are low to medium severity block cracking, low to high severity raveling, low to medium severity weathering and low severity patching. There is a significant amount of vegetation growing through cracking on the branch.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0300	Taxiway C	Taxiway	2	17,897	41
					


Taxiway C was constructed in 1996 and is composed of two sections. The most common distresses observed are low to medium to high severity longitudinal and transverse cracking, low severity weathering and low to high severity raveling. Field observations include significant vegetation growth through cracking.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0400	Apron Taxilane	Taxiway	1	125,000	47
					


The taxilane was constructed in 1996. Distresses observed are low to medium severity block cracking, low severity weathering, low severity alligator cracking and low severity raveling.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
4100	South Apron	Parking Apron	1	58,500	42
					


The apron was constructed in 1996. The most common distresses observed are either low to medium to high severity longitudinal and transverse cracking or block cracking, low severity weathering and low severity raveling. Vegetation is growing through most of the cracks.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
4200	Apron #2	Parking Apron	1	18,696	47
					


This apron was constructed in 1996. The most common distresses observed are low severity block cracking, medium severity longitudinal and transverse cracking, low severity weathering and low to high severity raveling. Vegetation is growing through longitudinal and transverse cracks.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
4300	Taxiway B Apron	Parking Apron	1	19,722	38
					

The apron was constructed in 1996. The most common distresses observed are low to medium severity block cracking, high severity longitudinal and transverse cracking, low severity weathering and low to high severity raveling. Field observations include areas where vegetation is growing through cracks or severely raveled areas of the pavement surface.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
4400	North Apron	Parking Apron	2	63,784	39
					

The apron was constructed in 1996. The most common distresses observed are low to medium to high severity block cracking, low severity weathering and low to high severity raveling. There is significant vegetation growth through cracks on the apron.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
6100	Runway 15-33	Runway	1	174,600	39
					

The runway was constructed in 1996. The most common distresses are low to medium to high severity longitudinal and transverse cracking intermixed with low severity block cracking, low to high severity raveling, and low severity weathering. There are isolated areas of low severity alligator beginning to form. The runway has significant vegetation growth with only the center portion of the runway having vegetation maintained.

**BRANCH CONDITION REPORT**

Branch ID	No. of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (Sq Ft)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
0100	1	120	35	5,394	TAXIWAY	29.7	0.0	29.70
0200	1	120	35	6,189	TAXIWAY	34.6	0.0	34.60
0300	2	320	47.5	17,897	TAXIWAY	42.6	2.9	41.42
0400	1	2,500	50	125,000	TAXIWAY	47.4	0.0	47.40
4100	1	1,170	50	58,500	APRON	41.6	0.0	41.60
4200	1	150	120	18,696	APRON	47.2	0.0	47.20
4300	1	150	120	19,722	APRON	38.2	0.0	38.20
4400	2	547	110	63,784	APRON	41.75	6.45	39.44
6100	1	2,920	60	174,600	RUNWAY	39.3	0.0	39.30

*Note: the dimensions in the Branch Condition Report are derived from area calculations and may not reflect actual dimensions of individual sections. Refer to the maps for actual section dimensions.*

**BRANCH USE CONDITION REPORT**

Use Category	No. of Sections	Total Area (Sq Ft)	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
APRON	5	160,702	42.10	5.00	40.98
RUNWAY	1	174,600	39.30	0.00	39.30
TAXIWAY	5	154,480	39.38	6.61	45.58
ALL	11	489,782	40.61	5.75	41.83

**SECTION CONDITION REPORT**

Branch ID	Section ID	Last Const. Date	Surf.	Use	Rank	True Area (Sq Ft)	Last Inspection Date	Age At Inspection	PCI
0100	0100-01	8/31/1996	AC	TAXIWAY	P	5,394	6/29/2023	27	29.7
0200	0200-01	8/31/1996	AC	TAXIWAY	P	6,189	6/29/2023	27	34.6
0300	0300-01	8/31/1996	AC	TAXIWAY	P	5,297	6/29/2023	27	45.5
0300	0300-02	8/31/1996	AAC	TAXIWAY	P	12,600	6/29/2023	27	39.7
0400	0400-01	8/31/1996	AC	TAXIWAY	P	125,000	6/29/2023	27	47.4
4100	4100-01	8/31/1996	AC	APRON	P	58,500	6/29/2023	27	41.6
4200	4200-01	8/31/1996	AC	APRON	P	18,696	6/29/2023	27	47.2
4300	430001	8/31/1996	AC	APRON	P	19,722	6/29/2023	27	38.2
4400	4400-01	8/31/1996	AC	APRON	P	43,324	6/29/2023	27	35.3
4400	4400-02	8/31/1996	AC	APRON	P	20,460	6/29/2023	27	48.2
6100	6100-01	8/31/1996	AC	RUNWAY	P	174,600	6/29/2023	27	39.3

**SECTION CONDITION REPORT (SUMMARY BY AGE CATEGORY)**

Age Category	Average Age at Inspection	Total Area (Sq Ft)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
26-30	27	489,782	11	40.61	5.75	41.83
ALL	27	489,782	11	40.61	5.75	41.83

9/26/2023

## Work History Report

Page 1 of 3

Pavement Database: StatewidePaverData\_9-14-23

Network: Healy River Airport Branch: 0100 Taxiway A Section: 0100-01 Surface:AC

L.C.D. 8/31/1996 Use: TAXIWAY Rank: P Length: 115.00 (Ft) Width: 35.00 (Ft) True Area: 5394.000001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 0200 Taxiway B Section: 0200-01 Surface:AC

L.C.D. 8/31/1996 Use: TAXIWAY Rank: P Length: 115.00 (Ft) Width: 35.00 (Ft) True Area: 6189.000001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 0300 Taxiway C Section: 0300-01 Surface:AC

L.C.D. 8/31/1996 Use: TAXIWAY Rank: P Length: 120.00 (Ft) Width: 35.00 (Ft) True Area: 5297.000001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 0300 Taxiway C Section: 0300-02 Surface: AAC

L.C.D. 8/31/1996 Use: TAXIWAY Rank: A Length: 210.00 (Ft) Width: 60.00 (Ft) True Area: 12600.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 0400 Apron Taxilane Section: 0400-01 Surface:AC

L.C.D. 8/31/1996 Use: TAXIWAY Rank: P Length: 2,500.00 (Ft) Width: 50.00 (Ft) True Area: 125000.0015 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 4100 South Apron Section: 4100-01 Surface:AC

L.C.D. 8/31/1996 Use: APRON Rank: P Length: 1,170.00 (Ft) Width: 50.00 (Ft) True Area: 58500.00146 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 4200 Apron 2 Section: 4200-01 Surface:AC

L.C.D. 8/31/1996 Use: APRON Rank: P Length: 150.00 (Ft) Width: 120.00 (Ft) True Area: 18696.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Healy River Airport Branch: 4300 TW B Apron Section: 4300-01 Surface:AC

L.C.D. 8/31/1996 Use: APRON Rank: P Length: 130.00 (Ft) Width: 140.00 (Ft) True Area: 19722.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

9/26/2023

**Work History Report**

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*Pavement Database: StatewidePaverData\_9-14-23*

**Network:** Healy River Airport    **Branch:** 4400    North Apron    **Section:** 4400-01    **Surface:** AC  
**L.C.D.** 8/31/1996    **Use:** APRON    **Rank:** P    **Length:** 400.00 (Ft)    **Width:** 110.00 (Ft)    **True Area:** 43324.00001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

**Network:** Healy River Airport    **Branch:** 4400    North Apron    **Section:** 4400-02    **Surface:** AC  
**L.C.D.** 8/31/1996    **Use:** APRON    **Rank:** P    **Length:** 130.00 (Ft)    **Width:** 150.00 (Ft)    **True Area:** 20460.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

**Network:** Healy River Airport    **Branch:** 6100    15/33    **Section:** 6100-01    **Surface:** AC  
**L.C.D.** 8/31/1996    **Use:** RUNWAY    **Rank:** P    **Length:** 2,910.00 (Ft)    **Width:** 60.00 (Ft)    **True Area:** 174600.0022 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/31/1996	NC-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	(Funded via AIP)

**Summary:**

<b>Work Description</b>	<b>Section Count</b>	<b>Area Total (SqFt)</b>	<b>Thickness Avg (in)</b>	<b>Thickness STD (in)</b>
New Construction - Initial	11	489,782.01	1.36	0.43

**PHYSICAL PROPERTY DATA**

Branch ID	Section ID	Pavement		Base		Subbase		Subgrade	
		Thick (in)	Type	Thick (in)	Type	Thick (in)	Type	Type	CBR
Taxiway A 0100	0100-01	1.5	P-401	6	P-208	6	P-154	GM	15
Taxiway B 0200	0200-01	1.5	P-401	6	P-208			GM	15
Taxiway C 0300	0300-01	1.5	P-401	6	P-208	6	P-154	GM	15
	0300-02	1.5	P-401	6	P-208	6	P-154	GM	15
Apron Taxilane 0400	0400-01	1.5	P-401	6	P-208	6	P-154	GM	15
South Apron 4100	4100-01	1.5	P-401	6	P-208	6	P-154	GM	15
Apron 2 4200	4200-01	1.5	P-401	6	P-208			GM	15
TW B Apron 4300	4300-01	1.5	P-401	6	P-208			GM	15
North Apron 4400	4400-01	1.5	P-401	6	P-208	6	P-154	GM	15
	4400-02	1.5	P-401	6	P-208	6	P-154	GM	15
Runway 15-33 6100	6100-05	1.5	P-401	6	P-208			GM	15

Note – blanks in subbase thickness are from unknown thickness or quality of material.

**AIRCRAFT FLEET MIX**

No.	Aircraft	Gross Wt (lb)	% Gross Wt on Main Gear	Tire Pressure (psi)	Annual Departures	20 Yr Coverages
1	Cessna 206 Stationair	3,612	95	52	456	1,712
2	PA-31-325 Navajo C/R	6,536	95	66	134	539
3	Cessna 208B Grand Caravan EX	8,750	95	75	58	242

**PAVEMENT CLASSIFICATION RATINGS**

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
15-33	Cessna 208B Grand Caravan Ex	59,723	22,500	8.0	1.0	134/F/A/X/T

**PCR CALCULATION NOTES**

- 1% traffic growth assumed
- Subgrade strength reduction for frost applied

**REFERENCES**

<b>Year</b>	<b>Reference No.</b>	<b>Document Title</b>
1995	65753 / 3-02-0414-02	Healy River Airport Improvements As-Built
1987	63560 / 3-02-0414-01	Healy River Airport Improvements As-Built
1987	3-02-0414-01	Healy River Airport Improvements Geology & Soils Report