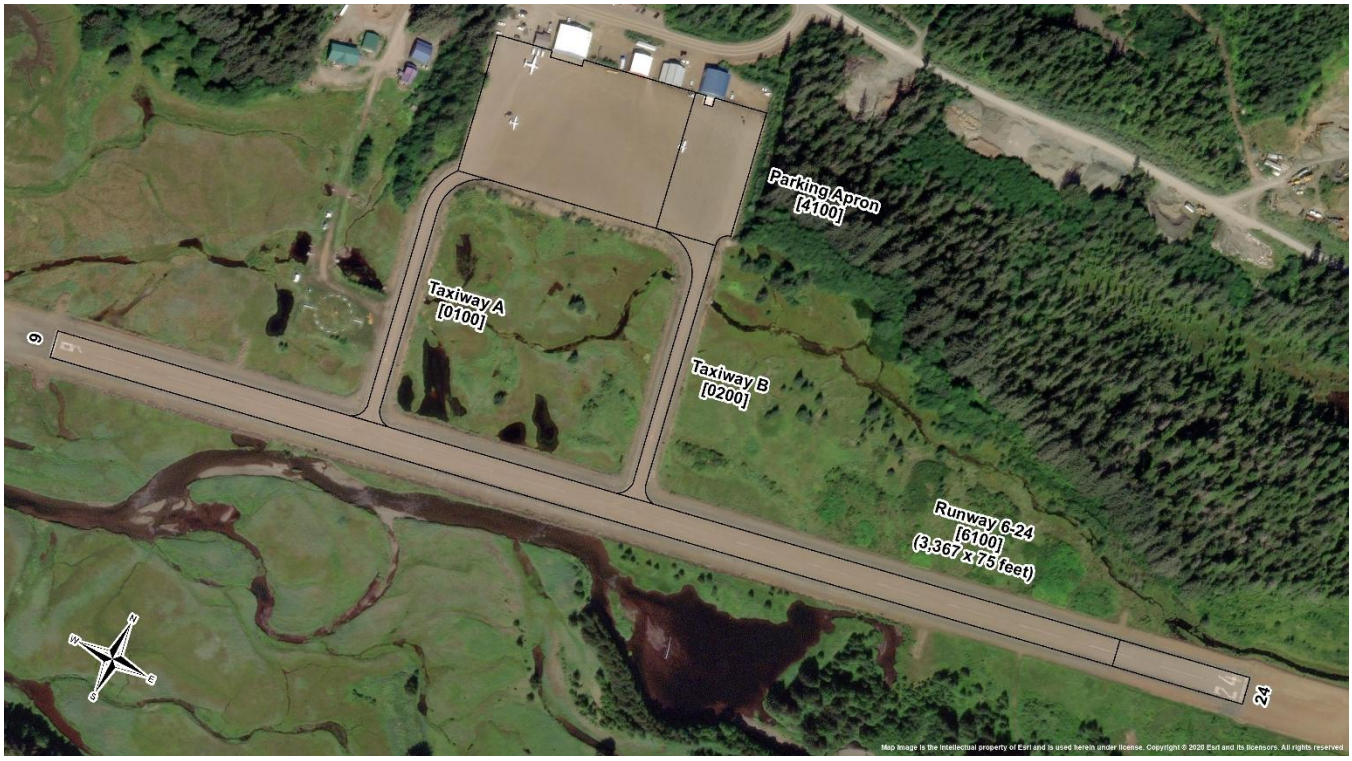
Alaska DOT&PF

Data Modernization and Innovation Office
Pavement Management and Preservation
5800 East Tudor Road, Anchorage AK 99507-1286

Pavement Inspection Report
Hoonah Airport

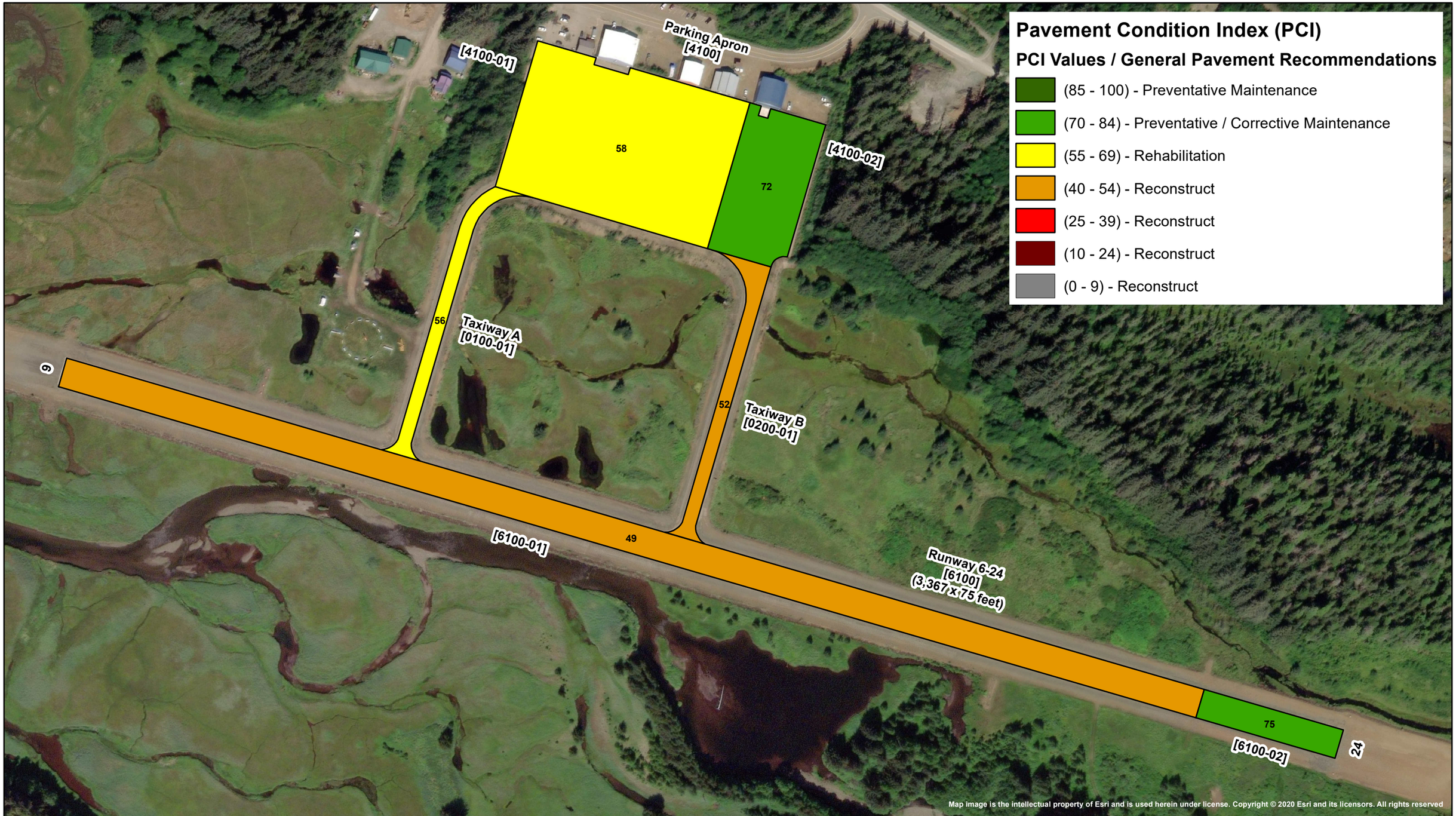


Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Hoonah Airport	HNH	PAOH	58° 05' 46.32" N	135° 24' 31.52" W	21.5

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	April 2024	July 2025

TABLE OF CONTENTS



Hoonah Airport

Airport Code: HNH
Site Number: 50321.01*A

Pavement Condition Index (PCI)

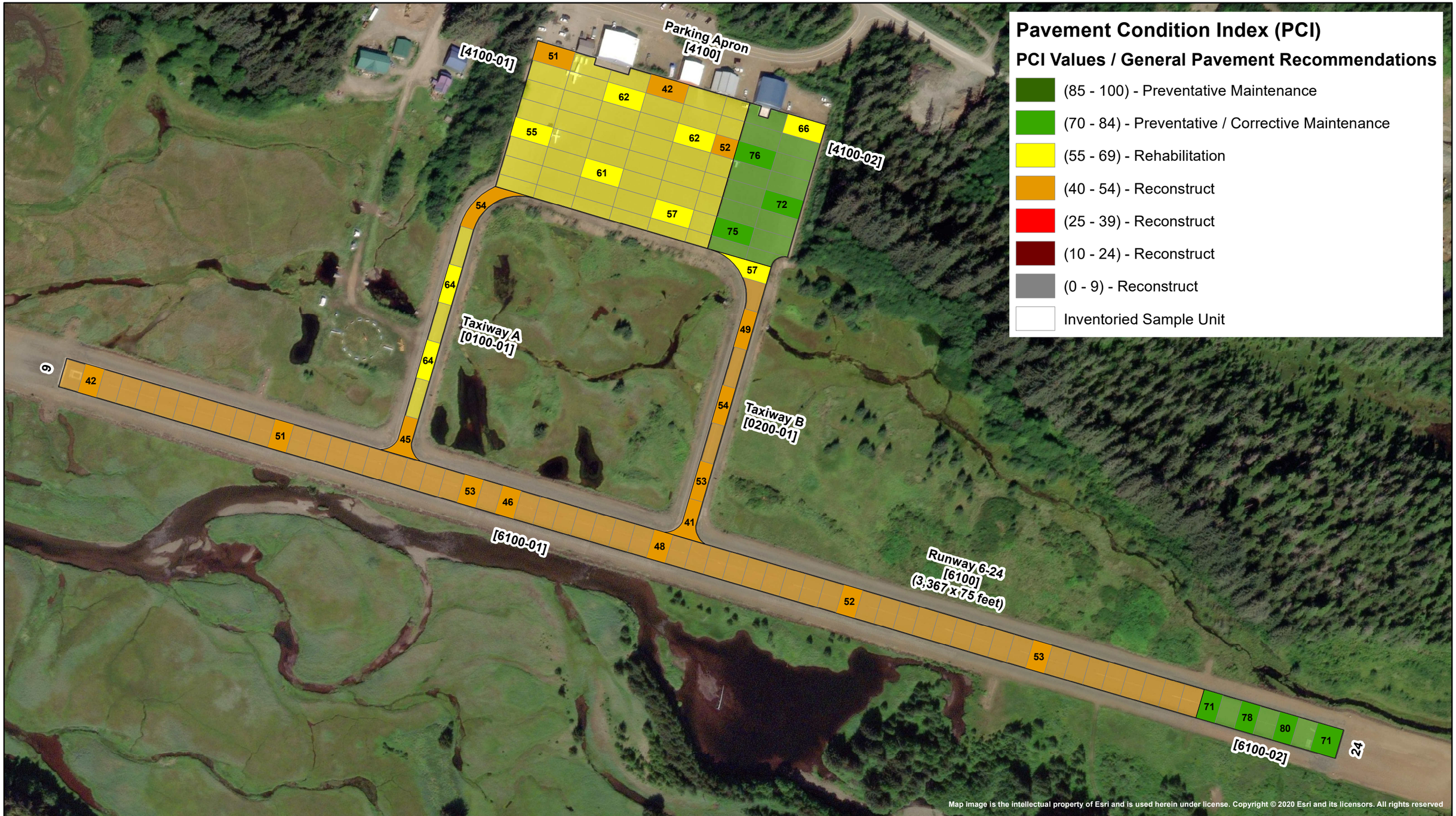
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100

2024 Pavement Inspection Results

0 175 350 700
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 1 of 6



Hoonah Airport

Airport Code: HNH
Site Number: 50321.01*A

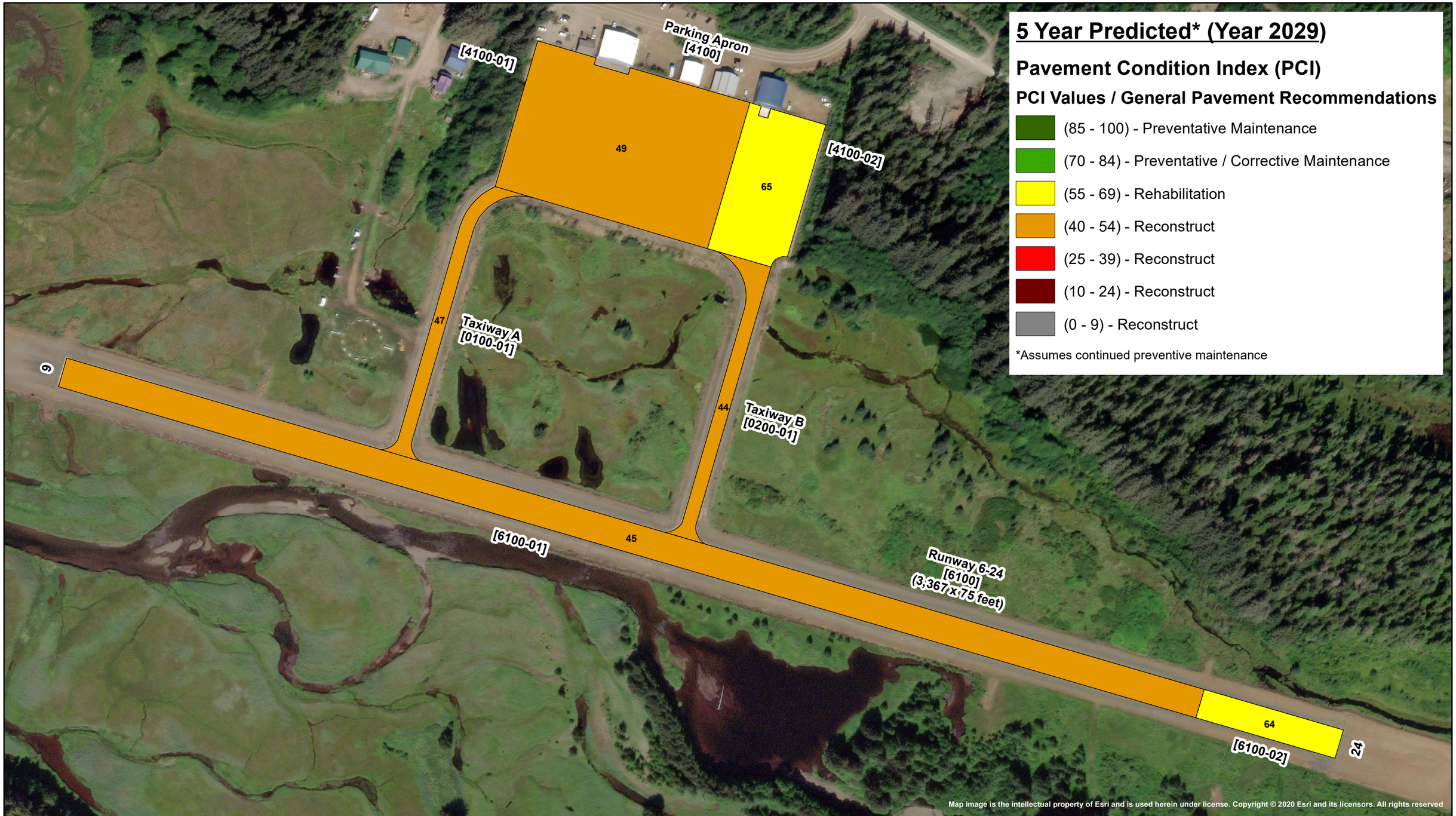
Sample Unit
Pavement Condition Index (PCI)
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100

2024 Pavement Inspection Results

0 175 350 700
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 2 of 6



Hoonah Airport

Airport Code: HNH
Site Number: 50321.01*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

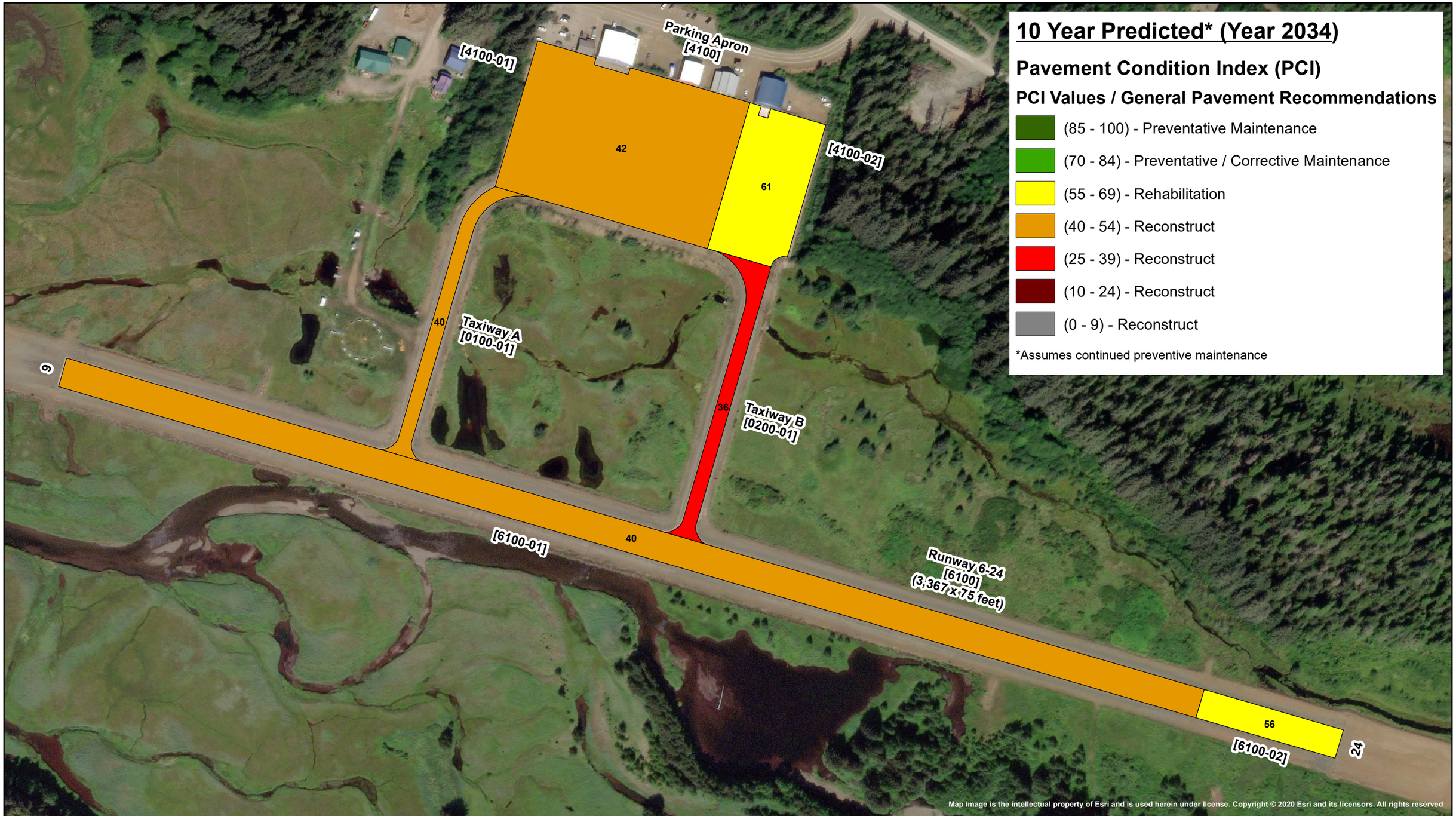
N W E S

2024 Pavement Inspection Results

0 175 350 700
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 3 of 6



Hoonah Airport

Airport Code: HNH
Site Number: 50321.01*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

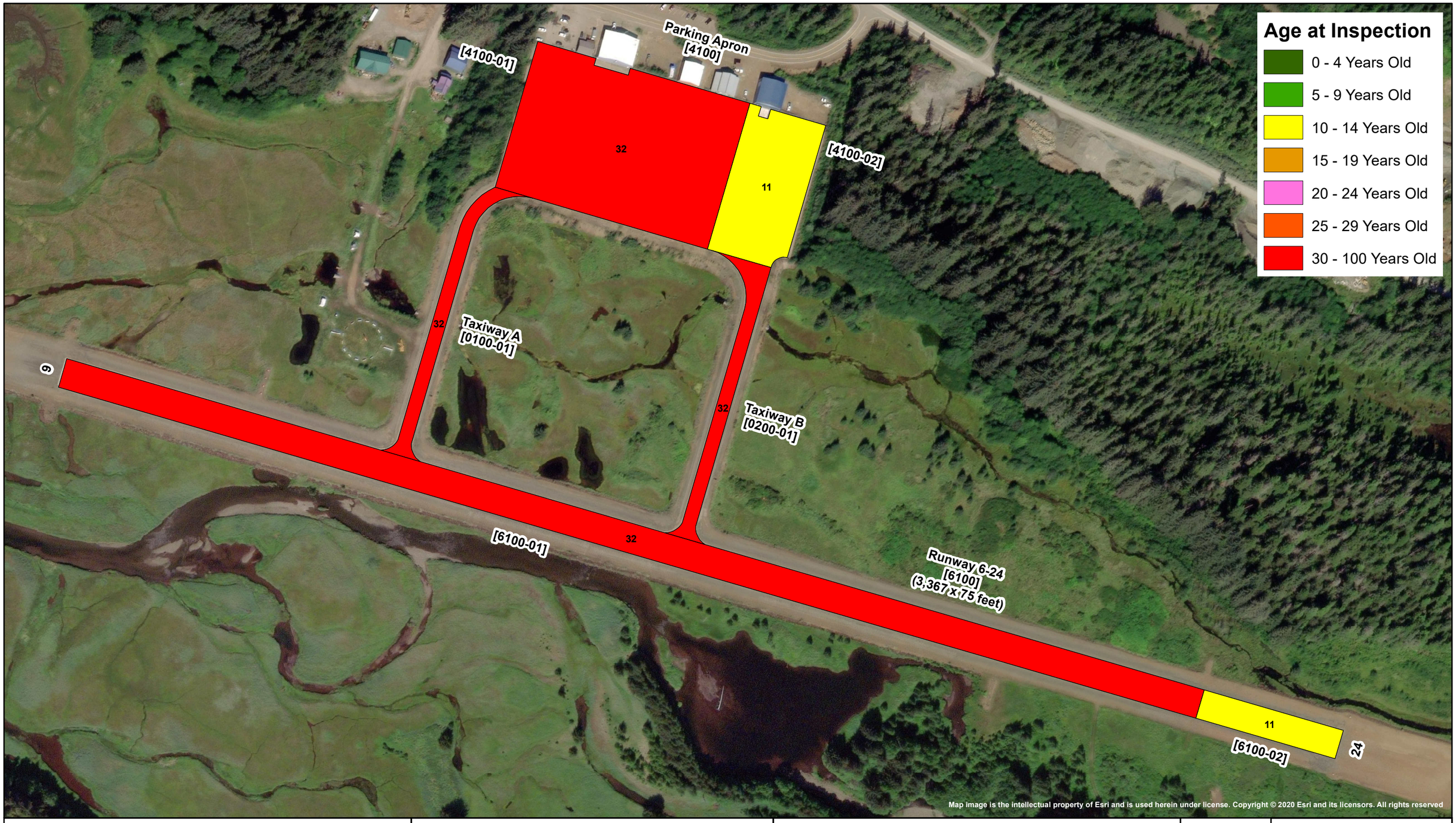
N W E S

2024 Pavement Inspection Results

0 175 350 700
Feet

Map Created by Duval Engineering
for AK DOT&PF

Map 4 of 6



Hoonah Airport

Airport Code: HNH
Site Number: 50321.01*A

Pavement Age at Inspection

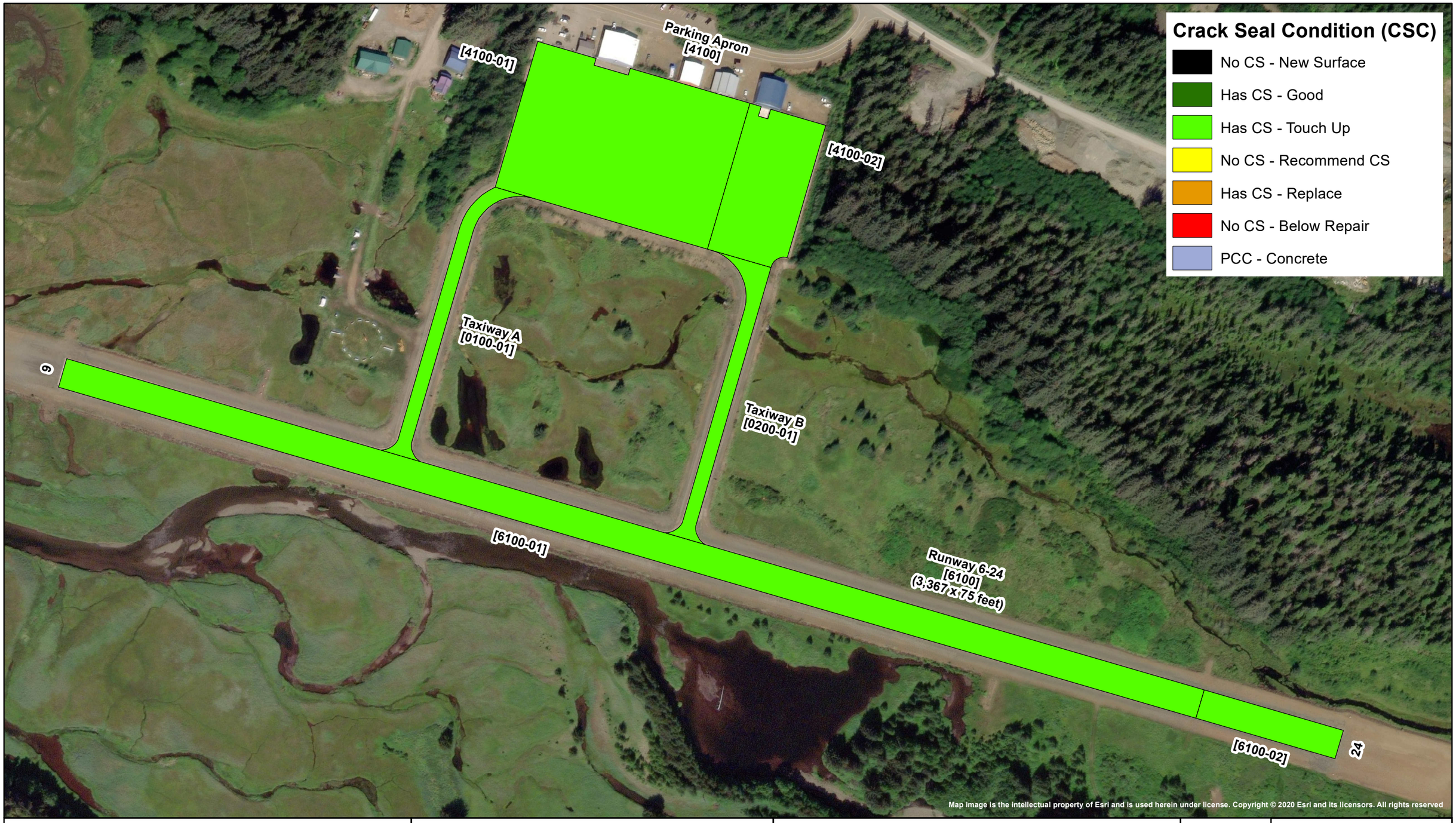
N W E S

2024 Pavement Inspection Results

0 175 350 700
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 5 of 6



Hoonah Airport

Airport Code: HNH
Site Number: 50321.01*A

Pavement Crack Seal Condition (CSC)

N W E S

2024 Pavement Inspection Results

0 175 350 700
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 6 of 6

AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0100	Taxiway A	Taxiway	1	27,092	56

Taxiway A was constructed in 1992 and has not undergone major work since. Occasional crack seal operations have been performed on the branch. The most common distresses are low to medium severity longitudinal and transverse cracking, low to high severity raveling, and low to medium severity weathering. Pavement inspectors observed damage to the pavement edge where the taxiway connects with the runway, leading to the degradation of the pavement surface. Further deterioration of the top layer of asphalt concrete is contributing to an increasing amount and higher severity of raveling and weathering on the taxiway.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0200	Taxiway B	Taxiway	1	29,287	52

Taxiway B was constructed in 1992 and has not undergone any major work since. Occasional crack seal operations have been performed on the branch. The most common distresses are low to medium severity longitudinal and transverse cracking, low to high severity raveling, and low to medium severity weathering. Pavement inspectors observed damage to the pavement edge where the taxiway connects with the runway, leading to the degradation of the pavement surface. Further deterioration of the top layer of asphalt concrete is contributing to an increasing amount and higher severity of raveling and weathering on the taxiway.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
4100	Parking Apron	Apron	2	289,054	61

Section 4100-01 (58 PCI)

The Parking Apron consists of two sections, Section 4100-01 and Section 4100-02. Section 4100-01 was initially constructed in 1992 and has not undergone any major work since. Occasional crack seal operations have been performed on the branch. The most common distresses are low to high severity depressions, low to medium severity longitudinal and transverse cracking, low to high severity raveling, and low to medium severity weathering. Inspectors observed the wearing away of the asphalt binder and fine aggregate from the pavement surface, increasing the quantity and severity of raveling and weathering across the parking apron.

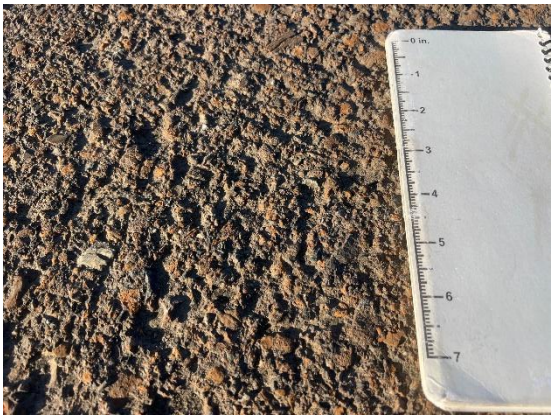
Section 4100-02 (72 PCI)

Section 4100-02 was constructed in 2013 and has not undergone any major work since. Occasional crack seal operations have been performed on the branch. The most common distresses are low to medium severity longitudinal and transverse cracking, oil spillage, low severity raveling, and low to medium severity weathering. Inspectors noted locations of large oil spills and the widespread wearing of the asphalt binder and fine aggregate from the pavement surface, increasing in the quantity and severity of raveling and weathering.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
6100	Runway 06/24	Runway	2	252,525	52

Section 6100-01 (49 PCI), 6100-02 (75 PCI)



Runway 06/24 consists of two sections, Section 6100-01 and Section 6100-02. Section 6100-01 was constructed in 1992 with a total length of 3,000 feet. In 2013, Runway 06/24 was lengthened by an additional 367 feet, with the extension designated Section 6100-02. The runway has not undergone any major work since. Periodic crack seal operations have been performed on the branch since construction. The most common distresses are low severity fatigue cracking, low to medium severity longitudinal and transverse cracking, low to high severity raveling, and low severity weathering. The inspection team observed more advanced wearing of the asphalt binder and fine aggregate from the pavement surface, increasing in the quantity and severity of raveling and weathering on the runway.

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	745	35	27,092	TAXIWAY	55.80	0.00	55.80
0200	1	745	35	29,287	TAXIWAY	51.50	0.00	51.50
4100	2	760	385	289,054	APRON	64.90	7.40	61.36
6100	2	3,367	75	252,525	RUNWAY	62.05	12.65	52.16

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	2	289,054	64.90	7.40	61.36
RUNWAY	2	252,525	62.05	12.65	52.16
TAXIWAY	2	56,379	53.65	2.15	53.57
ALL	6	597,958	60.20	9.79	56.74

SECTION CONDITION REPORT

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	True Area (Sq Ft)	Last Inspection Date	Age At Inspection	PCI
0100	0100-01	9/1/1992	AC	TAXIWAY	S	27,092	4/15/2024	32	56
0200	0200-01	9/1/1992	AC	TAXIWAY	S	29,287	4/15/2024	32	52
4100	4100-01	9/1/1992	AC	APRON	S	213,702	4/15/2024	32	58
4100	4100-02	9/1/2013	AC	APRON	T	75,352	4/15/2024	11	72
6100	6100-01	9/1/1992	AC	RUNWAY	S	225,000	4/15/2024	32	49
6100	6100-02	9/1/2013	AC	RUNWAY	S	27,525	4/15/2024	11	75

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
11-15	11	102,877	2	73.50	1.20	72.94
31-35	32	495,081	4	53.55	3.24	53.37
ALL	25	597,958	6	60.20	9.79	56.74

Work History Report

Pavement Database: Alaska

Network: Hoonah Airport **Branch:** 0100 Taxiway A **Section:** 0100-01 **Surface:**AC
L.C.D. 9/1/1992 **Use:** TAXIWAY **Rank:** S **Length:** 745.00 (Ft) **Width:** 35.00 (Ft) **True Area:** 27092 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/4/2002	PA-AD	Patching - AC Deep	0.00	0.00	☐	Lighting Trench, (Funded via AIP)
9/1/1992	NC-IN	New Construction - Initial	0.00	0.00	☑	2" HMA, 6" Crushed Aggregate Base

Network: Hoonah Airport **Branch:** 0200 Taxiway B **Section:** 0200-01 **Surface:**AC
L.C.D. 9/1/1992 **Use:** TAXIWAY **Rank:** S **Length:** 745.00 (Ft) **Width:** 35.00 (Ft) **True Area:** 29287 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1992	NC-IN	New Construction - Initial	0.00	0.00	☑	2" HMA, 6" Crushed Aggregate Base

Network: Hoonah Airport **Branch:** 4100 Parking Apron **Section:** 4100-01 **Surface:**AC
L.C.D. 9/1/1992 **Use:** APRON **Rank:** S **Length:** 560.00 (Ft) **Width:** 384.50 (Ft) **True Area:** 213702 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1992	NC-IN	New Construction - Initial	0.00	0.00	☑	2" HMA, 6" Crushed Aggregate Base

Network: Hoonah Airport **Branch:** 4100 Parking Apron **Section:** 4100-02 **Surface:**AC
L.C.D. 9/1/2013 **Use:** APRON **Rank:** T **Length:** 200.00 (Ft) **Width:** 384.50 (Ft) **True Area:** 75352 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2013	NC-IN	New Construction - Initial	0.00	0.00	☑	2" HMA, 6" Crushed Aggregate Base

Network: Hoonah Airport **Branch:** 6100 06/24 **Section:** 6100-01 **Surface:**AC
L.C.D. 9/1/1992 **Use:** RUNWAY **Rank:** S **Length:** 3,000.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 225000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/4/2002	PA-AL	Patching - AC Leveling	0.00	0.00	☐	(Funded via AIP)
9/1/1992	NC-IN	New Construction - Initial	0.00	0.00	☑	2" HMA, 6" Crushed Aggregate Base

Network: Hoonah Airport **Branch:** 6100 06/24 **Section:** 6100-02 **Surface:**AC
L.C.D. 9/1/2013 **Use:** RUNWAY **Rank:** S **Length:** 367.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 27525 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2013	NC-IN	New Construction - Initial	0.00	0.00	☑	2" HMA, 6" Crushed Aggregate Base

Work History Report

Pavement Database: Alaska

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
New Construction - Initial	6	597,958.00	0.00	0.00
Patching - AC Deep	1	27,092.00	0.00	0.00
Patching - AC Leveling	1	225,000.00	0.00	0.00

PHYSICAL PROPERTY DATA

		Pavement		Base		Subbase		Subgrade	
Branch ID	Section ID	Thick (in)	Type	Thick (in)	Type	Thick (in)	Type	Type	CBR
Taxiway A 100	0100-01	2	P-401	6	P-208	6	P-154	GP	8
Taxiway B 200	0200-01	2	P-401	6	P-208	6	P-154	GP	8
Parking Apron 4100	4100-01	2	P-401	6	P-208	6	P-154	GP	8
	4100-02	2	P-401	6	P-208	6	P-154	GP	8
Runway 06/24 6100	6100-01	2	P-401	6	P-208	6	P-154	GP	8
	6100-02	2	P-401	6	P-208	6	P-154	GP	8

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	95.00	52	578	3,135
2	S-5	5,100	95.00	51	87	490
3	Cessna 208B	8,750	95.00	75	2,246	13,091
4	S-10	10,450	95.00	52	75	474
5	PA-31-325 Navajo C/R	6,536	95.00	66	98	557

PAVEMENT CLASSIFICATION RATINGS

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
6-24	S-10	54,589	12,000	14.0	1.0	161/F/C/X/T

PCR CALCULATION NOTES

- 1% traffic growth assumed
- Subgrade strength reduction for frost applied
- S-5 and S-10 refers to “generic” single gear aircraft as modeled in FAARFIELD

REFERENCES

Year	Project No.	Document Title
2012	3-02-0125-005, 68303	Runway Extension As-Built
2003	3-02-0125-0403, 68389	SREB As Built
2001	3-02-0125-0301, 68213	Lighting System Runway, Taxiway As-Built
1991	3-02-0125-01, 69267	Airport Improvements As-Built
1990	3-02-0125-01, 69267	Geotechnical Report Supplement
1987	69267	Engineering Geology and Soils Report
1981	81-691-01	Runway, Taxiway, Apron, Access Road Improvements As-Built