



Alaska DOT&PF

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

Pavement Inspection Report Clear Airport



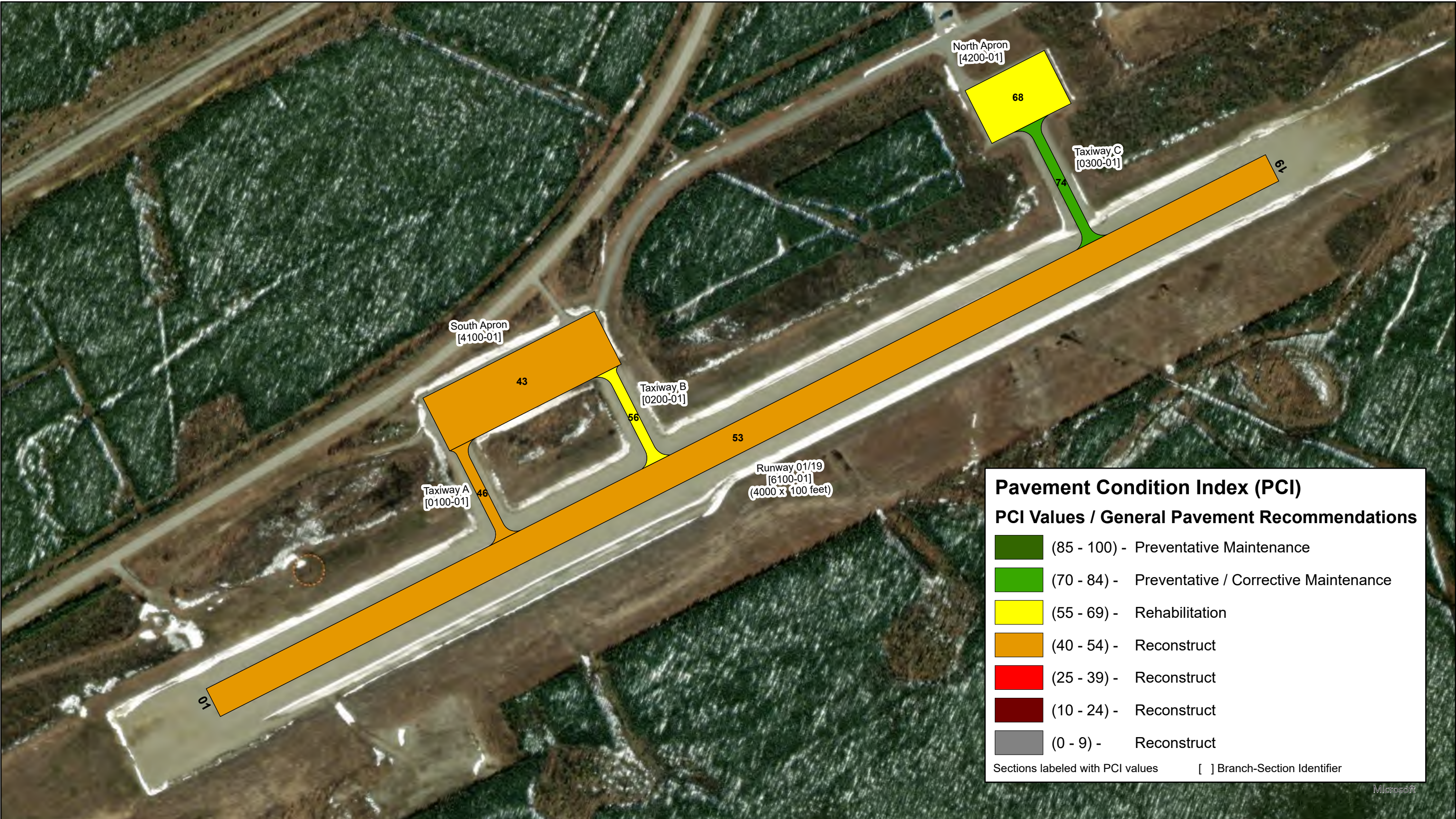
Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Clear Airport	-	PACL	64° 18' 04" N	149° 07' 13" W	552

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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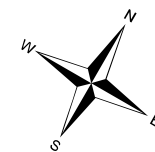


Clear Airport

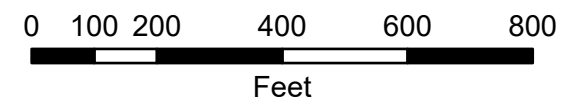
Airport Code: Z84
Site Number: 50109.*A

Pavement Condition Index (PCI)

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

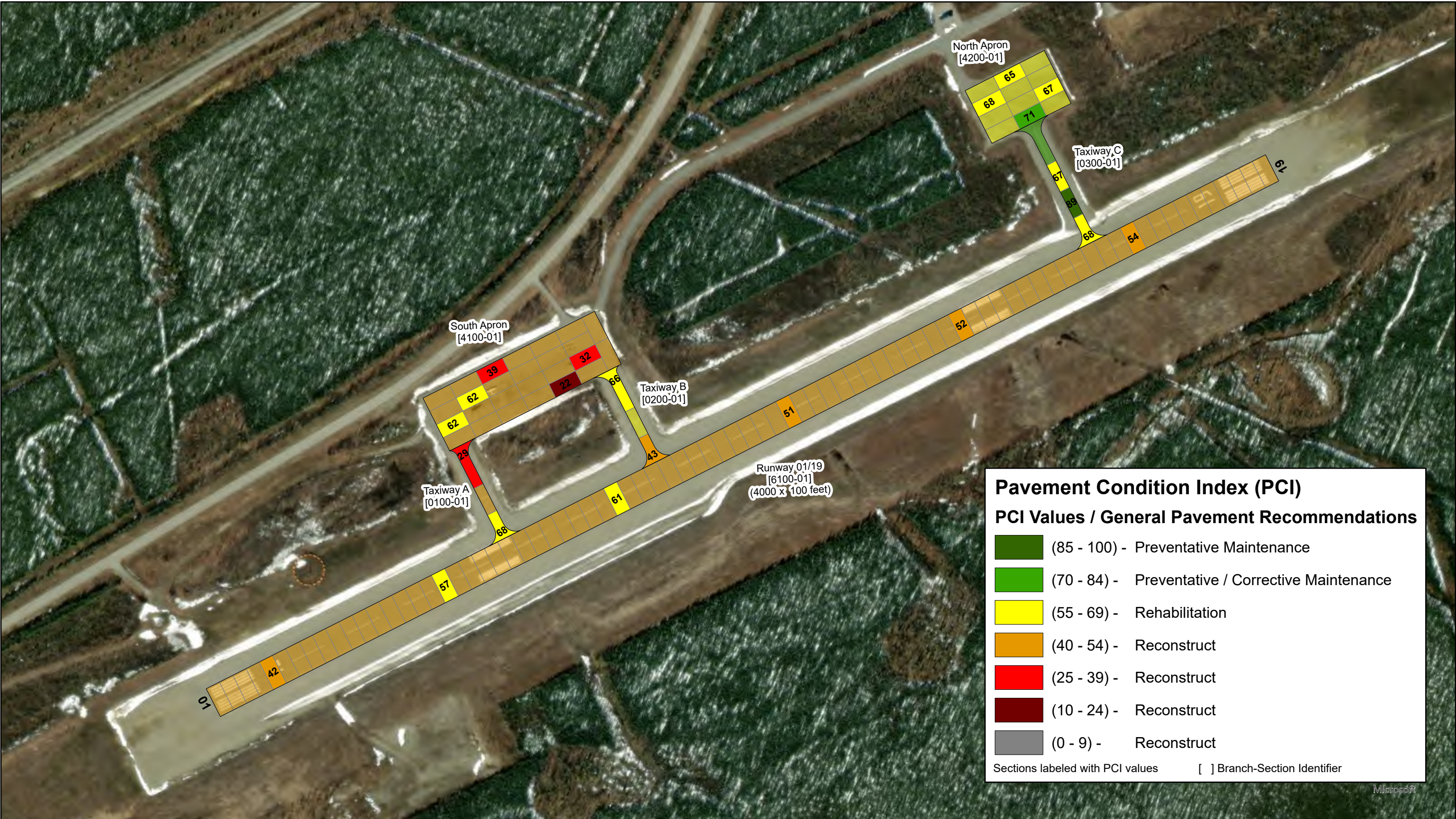


2023 Pavement Inspection Results



Map Created by
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Map 1 of 6

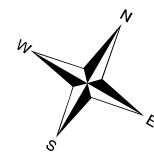


Clear Airport

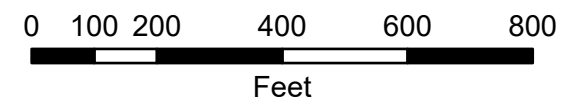
Airport Code: Z84
Site Number: 50109.*A

Sample Pavement Condition Index (PCI)

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

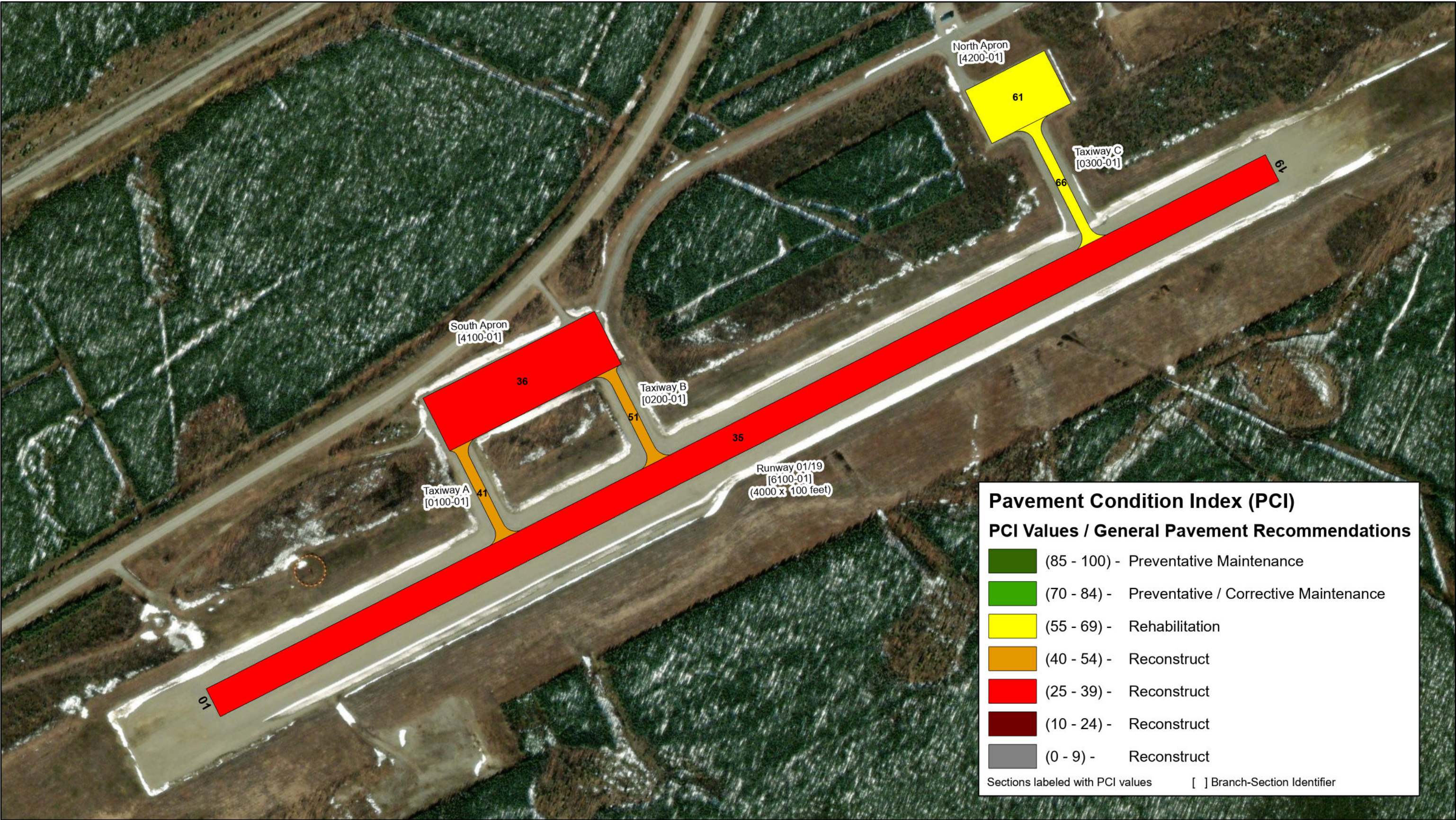


2023 Pavement Inspection Results



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Map 2 of 6

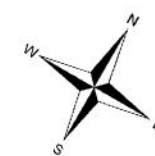


Clear Airport

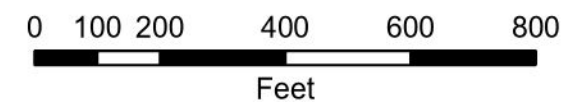
Airport Code: Z84
Site Number: 50109.*A

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

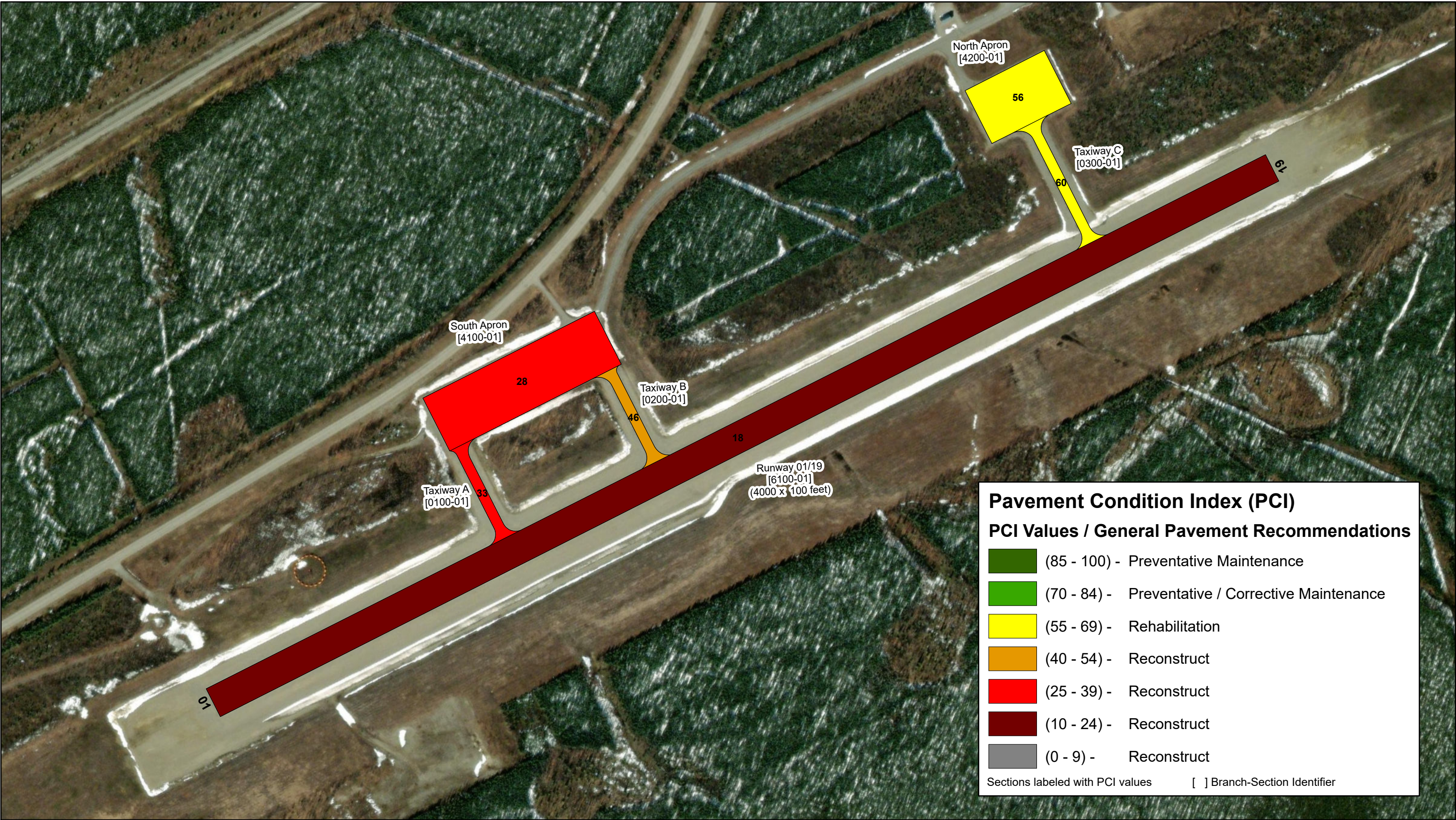


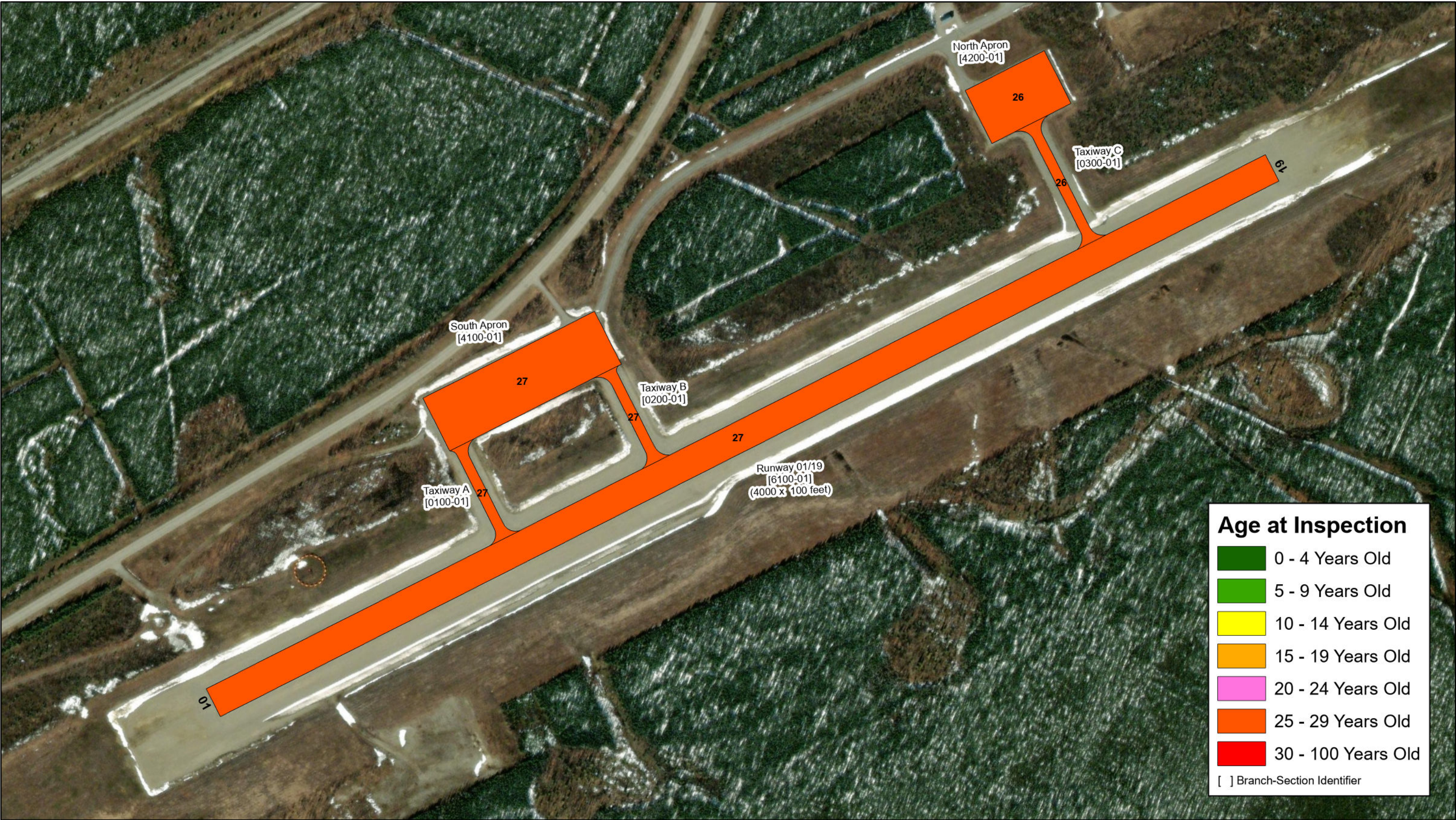
2023 Pavement Inspection Results



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Map 3 of 6

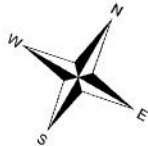




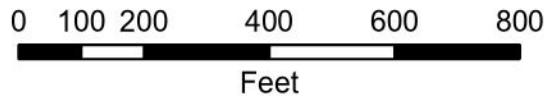
Clear Airport

Airport Code: Z84
Site Number: 50109.*A

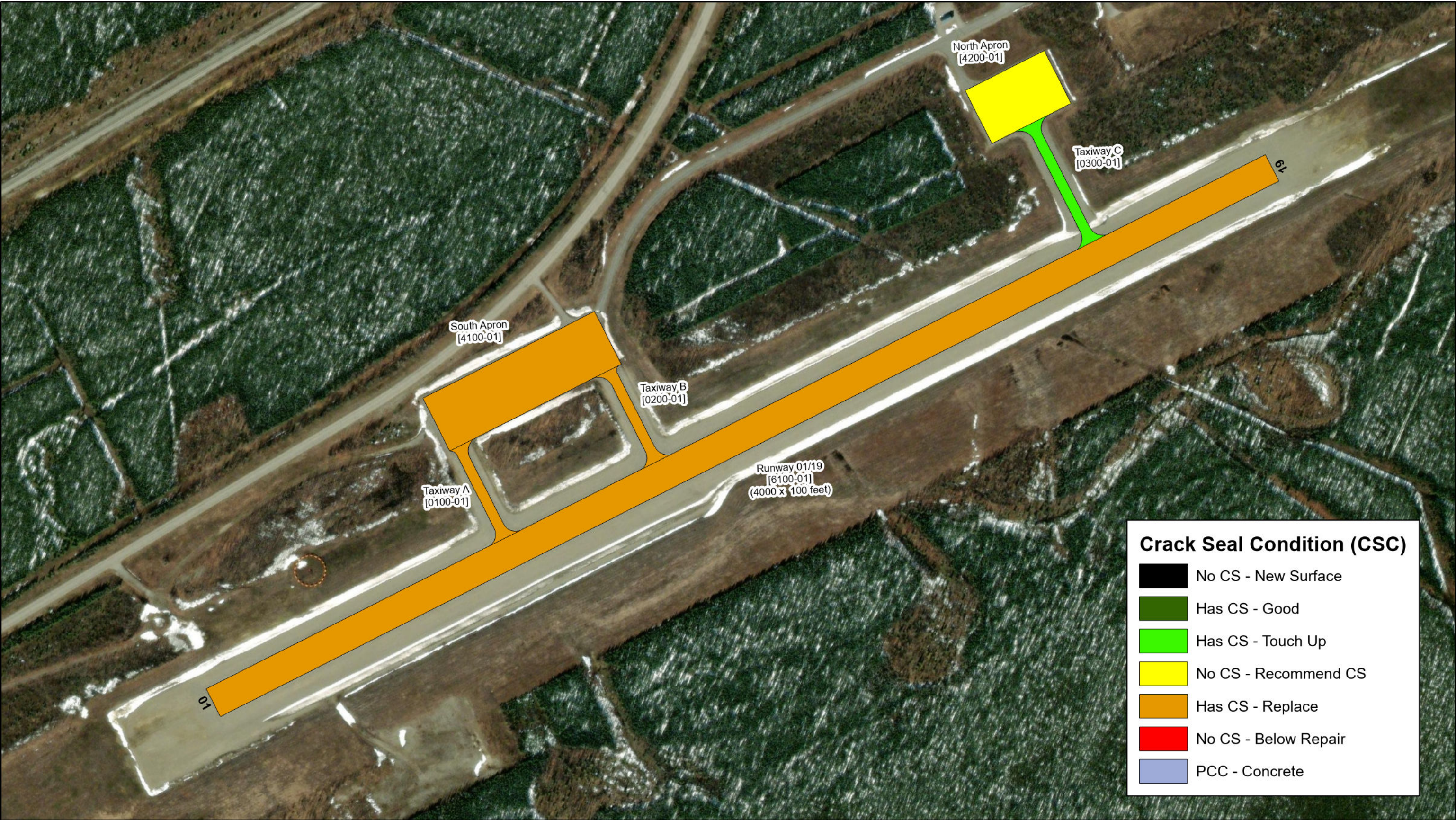
Pavement Age at Inspection



2023 Pavement Inspection Results



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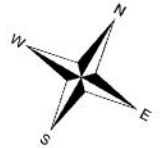
Crack Seal Condition (CSC)

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

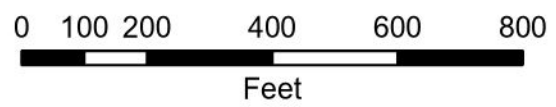
Clear Airport

Airport Code: Z84
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Pavement Crack Seal Condition (CSC)





2023 Pavement Inspection Results





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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	13,616	46
					


Taxiway A was originally constructed in 1996 and has had no work since. Common distresses on the taxiway are low to medium severity weathering, low to medium severity longitudinal and transverse cracking, low severity depression, and a large medium severity patch adjacent to the apron.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0200	Taxiway B	Taxiway	1	13,631	56
					



Taxiway B was constructed in 1996 and has had no work since. Typical distresses are low severity longitudinal and transverse cracking, low severity patching and low severity weathering. Adjacent to the apron is an area of severe distress with low, medium and high severity longitudinal and transverse cracking and raveling and low severity alligator cracking. The edge of pavement is being damaged by snowplows and crumbling.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0300	Taxiway C	Taxiway	1	17,766	74
					



Taxiway C was constructed in 1997 and received no work since. Distresses are low severity weathering, low to medium severity longitudinal and transverse cracking and a low severity depression.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
4100	South Apron	Parking Apron	1	130,000	43
					

The South Apron was constructed in 1996 and has received no work since. Commonly distresses are low to medium severity longitudinal and transverse cracking, low severity weathering and low severity raveling. Areas near the edge of the apron have more severe distresses that include low to medium severity alligator cracking, medium severity raveling, medium severity swelling and a high severity depression.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
4200	North Apron	Parking Apron	1	60,000	68
					

The North Apron was constructed in 1997 and has received no work since. Observed distresses are low severity longitudinal and transverse cracking and low severity weathering. There are scattered areas of high severity raveling across the apron, as well as isolated areas of severe edge cracking at the sides of the apron.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
6100	Runway 01-19	Runway	1	400,000	53
					

Runway 15-33 was constructed in 1996 and has received no work since. Common distresses are low to medium to high severity longitudinal and transverse cracking, low severity raveling, low to medium severity weathering, and isolated low severity alligator cracking.

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	350	35	13,616	TAXIWAY	46.50	0.00	46.50
0200	1	350	35	13,631	TAXIWAY	55.60	0.00	55.60
0300	1	450	35	17,766	TAXIWAY	74.20	0.00	74.20
4100	1	650	200	130,000	APRON	43.20	0.00	43.20
4200	1	300	200	60,000	APRON	67.90	0.00	67.90
6100	1	4,000	100	400,000	RUNWAY	52.70	0.00	52.70

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	190,000	55.55	12.35	51.00
RUNWAY	1	400,000	52.70	0.00	52.70
TAXIWAY	3	45,013	58.77	11.53	60.19
ALL	6	635,013	56.68	11.07	52.72

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	9/1/1996	AC	TAXIWAY	P	13,616	6/27/2023	27	46.5
0200	0200-01	9/1/1996	AC	TAXIWAY	P	13,631	6/27/2023	27	55.6
0300	0300-01	8/15/1997	AC	TAXIWAY	P	17,766	6/27/2023	26	74.2
4100	4100-01	9/1/1996	AC	APRON	P	130,000	6/27/2023	27	43.2
4200	4200-01	8/15/1997	AC	APRON	P	60,000	6/27/2023	26	67.9
6100	6100-01	9/1/1996	AC	RUNWAY	P	400,000	6/27/2023	27	52.7

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	635,013	6	56.68	11.07	52.72
ALL	27	635,013	6	56.68	11.07	52.72

9/7/2023

Work History Report

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Pavement Database: StatewidePAVER_6_29_23

Network: Clear Airport Branch: 0100 Taxiway A Section: 0100-01 Surface: AC
 L.C.D. 9/1/1996 Use: TAXIWAY Rank: P Length: 350.00 (Ft) Width: 35.00 (Ft) True Area: 13616.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1996	NC-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Clear Airport Branch: 0200 Taxiway B Section: 0200-01 Surface: AC
 L.C.D. 9/1/1996 Use: TAXIWAY Rank: P Length: 350.00 (Ft) Width: 35.00 (Ft) True Area: 13631.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1996	NC-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Clear Airport Branch: 0300 Taxiway C Section: 0300-01 Surface: AC
 L.C.D. 8/15/1997 Use: TAXIWAY Rank: P Length: 450.00 (Ft) Width: 35.00 (Ft) True Area: 17766.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/1997	NC-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Clear Airport Branch: 4100 South Apron Section: 4100-01 Surface: AC
 L.C.D. 9/1/1996 Use: APRON Rank: P Length: 650.00 (Ft) Width: 200.00 (Ft) True Area: 130000.0032 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1996	NC-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Clear Airport Branch: 4200 North Apron Section: 4200-01 Surface: AC
 L.C.D. 8/15/1997 Use: APRON Rank: P Length: 300.00 (Ft) Width: 200.00 (Ft) True Area: 60000.00150 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/1997	NC-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	(Funded via AIP)

Network: Clear Airport Branch: 6100 01/19 Section: 6100-01 Surface: AC
 L.C.D. 9/1/1996 Use: RUNWAY Rank: P Length: 4,000.00 (Ft) Width: 100.00 (Ft) True Area: 400000.0001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1996	NC-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	(Funded via AIP)

9/7/2023

Work History Report

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Pavement Database: StatewidePAVER_6_29_23

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
New Construction - Initial	6	635,013.00	2.00	0.00

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	2	P-401	4	P-208			SW	20
Taxiway B 0200	0200-01	2	P-401	4	P-208			GP-GM	18
Taxiway C 0300	0300-01	2	P-401	4	P-208			GP	30
South Apron 4200	4100-01	2	P-401	4	P-208			SM	5
North Apron 4200	4200-01	2	P-401	4	P-208			GP	30
Runway 01-19 6100	6100-01	2	P-401	4	P-208			GW-GM	18

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
3	Cessna 208B Grand Caravan EX	8,750	95	75	50	181

PAVEMENT CLASSIFICATION RATINGS

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
01/19	Cessna 208B Grand Caravan Ex	88,774	27,000	6	1.0	195/F/A/X/T

PCR CALCULATION NOTES

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

REFERENCES

Year	Reference No.	Document Title
1993	65577 / 3-02-0420-01	Clear Airport Improvements
1993	-	Clear Airport Improvements Geotechnical Studies