Alaska DOT&PF

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

Pavement Inspection Report
Aniak Airport

Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Aniak	ANI	PANI	61° 34' 53.06" N	159° 32' 43.07" W	96.8

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 2024	December 2024

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Aniak Airport

Airport Code: ANI
Site Number: 50038.A

Pavement Condition Index (PCI)

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

N E S W

2024 Pavement Inspection Results

0 300 600 1,200
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 1 of 6

Aniak Airport

Airport Code: ANI
Site Number: 50038.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

N E S W

2024 Pavement Inspection Results

0 300 600 1,200
Feet

Map Created by Duval Engineering
for AK DOT&PF

Aniak Airport

Airport Code: ANI
Site Number: 50038.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 E S W

2024 Pavement Inspection Results

0 300 600 1,200
Feet

Map Created by Duval Engineering
for AK DOT&PF

Map 3 of 6

Aniak Airport

Airport Code: ANI
Site Number: 50038.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 E S W

2024 Pavement Inspection Results

0 300 600 1,200
Feet

Map Created by Duval Engineering for AK DOT&PF

Map 4 of 6

Aniak Airport

Airport Code: ANI
Site Number: 50038.A

Pavement Age at Inspection

N E S W

2024 Pavement Inspection Results

0 300 600 1,200
Feet

Map Created by Duval Engineering
for AK DOT&PF

Map 5 of 6

[6100-04]
[6100-01]
11
Turn Around
[0300-01]
Runway 11-29
[6100]
(6,200 x 100 feet)
[6100-02]
[6100-03]
[6100-05]
29
[0100-01]
Taxiway G
[0200-01]
Taxiway F
[0100]
[0100-02]
Apron
[4100-01]

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

Aniak Airport

Airport Code: ANI
Site Number: 50038.A

Pavement Crack Seal Condition (CSC)

N E S W

2024 Pavement Inspection Results

0 300 600 1,200
Feet

Map Created by Duval Engineering
for AK DOT&PF

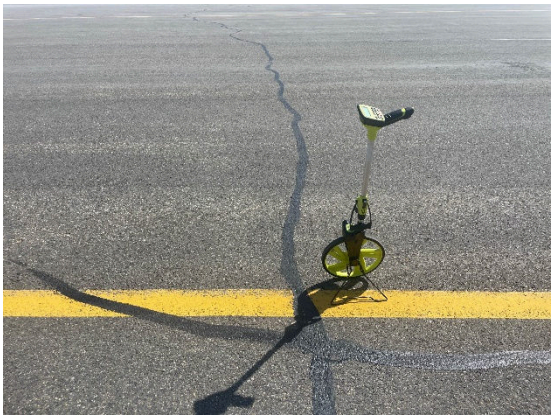
Map 6 of 6

AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0100	Taxiway F	Taxiway	2	98,717	88

Taxiway F was initially constructed in 1997 and was reconstructed in 2019. Occasional crack seal operations have been performed on the branch. The most common distresses observed are low severity longitudinal and transverse cracking, low severity raveling, and low severity weathering. Field observations include sealed cracks, the pavements surface beginning to weather, and localized areas of raveling.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0200	Taxiway G	Taxiway	1	55,938	91



Taxiway G was initially constructed in 2019 during the runway shift project. Occasional crack seal operations have been performed on the branch. The most common distresses observed are low severity longitudinal and transverse cracking, low severity raveling, and low severity weathering. Field observations include sealed cracks, the pavements surface beginning to weather, and localized areas of raveling.

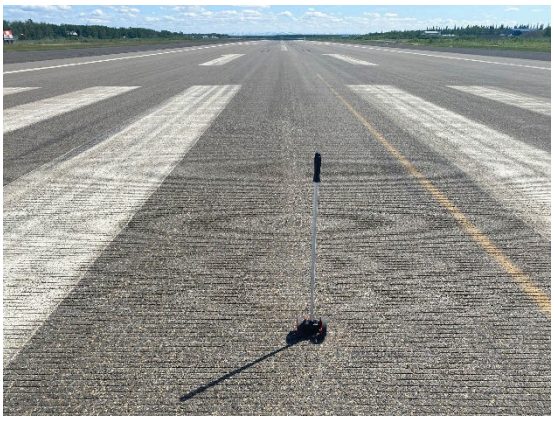
Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0300	Turnaround	Taxiway	1	53,659	93

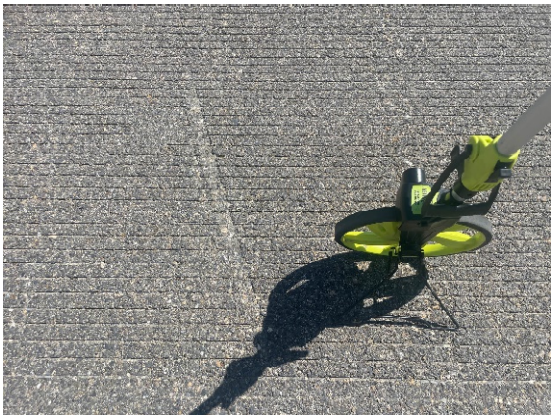
The turnaround taxiway was newly constructed in 2019 as a part of the runway shift project. Occasional crack seal operations have been performed on the branch. The most common distresses observed are low severity longitudinal and transverse cracking, low severity raveling, and low severity weathering. Field observations include the pavements surface beginning to weather and localized areas of raveling.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
4100	Apron	Apron	1	215,089	90

The apron was initially constructed in 1997 and was reconstructed in 2019. The most common distresses observed are low severity longitudinal and transverse cracking and low severity weathering. Field observations include sealed cracks and the pavements surface beginning to weather. Unsealed medium severity longitudinal and transverse cracks exist on the apron near the hangars.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
6100	Runway 11/29	Runway	5	676,000	88






Runway 11/29 was newly constructed in 2019 as a runway shift project. Periodic crack seal operations have been performed on the branch since construction. The most common distresses observed are low severity longitudinal and transverse cracking, low severity raveling, and low severity weathering. Field observations include sealed cracks, the pavements surface beginning to weather, and localized areas of raveling.

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	2	1,430	67	98,717	TAXIWAY	88.00	0.30	88.07
0200	1	740	75	55,938	TAXIWAY	90.90	0.00	90.90
0300	1	730	75	53,659	TAXIWAY	93.40	0.00	93.40
4100	1	1,030	230	215,089	APRON	89.50	0.00	89.50
6100	5	6,600	116	676,000	RUNWAY	89.98	1.96	88.49

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	1	215,089	89.50	0.00	89.50
RUNWAY	5	676,000	89.98	1.96	88.49
TAXIWAY	4	208,314	90.08	2.27	90.20
ALL	10	1,099,403	89.97	2.00	89.01

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	7/6/2019	AC	TAXIWAY	S	38,117	6/10/2024	5	88
0100	0100-02	7/6/2019	AC	TAXIWAY	S	60,600	6/10/2024	5	88
0200	0200-01	7/6/2019	AC	TAXIWAY	S	55,938	6/10/2024	5	91
0300	0300-01	7/6/2019	AC	TAXIWAY	S	53,659	6/10/2024	5	93
4100	4100-01	7/6/2019	AC	APRON	S	215,089	6/10/2024	5	90
6100	6100-01	7/6/2019	AC	RUNWAY	S	40,000	6/10/2024	5	89
6100	6100-02	7/6/2019	AC	RUNWAY	S	540,000	6/10/2024	5	88
6100	6100-03	7/6/2019	AC	RUNWAY	S	40,000	6/10/2024	5	92
6100	6100-04	7/6/2019	AC	RUNWAY	T	28,000	6/10/2024	5	93
6100	6100-05	7/6/2019	AC	RUNWAY	T	28,000	6/10/2024	5	89

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
03-05	5	1,099,403	10	89.97	2.00	89.01
ALL	5	1,099,403	10	89.97	2.00	89.01

Work History Report

Pavement Database: Alaska

Network: Aniak Airport **Branch:** 0100 Taxiway F **Section:** 0100-01 **Surface:** AC
L.C.D. 7/6/2019 **Use:** TAXIWAY **Rank:** S **Length:** 622.00 (Ft) **Width:** 60.00 (Ft) **True Area:** 38117 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	CR-AC	Complete Reconstruction - AC	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S
6/4/2002	CS-AC	Crack Sealing - AC	0.00	0.00	☐	(Funded via AIP)
6/15/1997	NC-IN	New Construction - Initial	0.00	3.00	☑	(Funded via AIP)

Network: Aniak Airport **Branch:** 0100 Taxiway F **Section:** 0100-02 **Surface:** AC
L.C.D. 7/6/2019 **Use:** TAXIWAY **Rank:** S **Length:** 808.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 60600 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	CR-AC	Complete Reconstruction - AC	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S
6/15/1997	NC-IN	New Construction - Initial	0.00	0.00	☑	(Funded via AIP)

Network: Aniak Airport **Branch:** 0200 Taxiway G **Section:** 0200-01 **Surface:** AC
L.C.D. 7/6/2019 **Use:** TAXIWAY **Rank:** S **Length:** 740.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 55938 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Network: Aniak Airport **Branch:** 0300 Turnaround **Section:** 0300-01 **Surface:** AC
L.C.D. 7/6/2019 **Use:** TAXIWAY **Rank:** S **Length:** 730.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 53659 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Network: Aniak Airport **Branch:** 4100 Apron **Section:** 4100-01 **Surface:** AC
L.C.D. 7/6/2019 **Use:** APRON **Rank:** S **Length:** 1,030.00 (Ft) **Width:** 230.00 (Ft) **True Area:** 215089 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	MOL-3	Cold Mill and Overlay - 3 Inches	0.00	3.00	☑	3" HMA, (Funded via AIP)
6/4/2002	CS-AC	Crack Sealing - AC	0.00	0.00	☐	(Funded via AIP)
6/15/1997	NC-IN	New Construction - Initial	0.00	3.00	☑	(Funded via AIP)

Network: Aniak Airport **Branch:** 6100 11/29 **Section:** 6100-01 **Surface:** AC
L.C.D. 7/6/2019 **Use:** RUNWAY **Rank:** S **Length:** 400.00 (Ft) **Width:** 100.00 (Ft) **True Area:** 40000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Network: Aniak Airport **Branch:** 6100 11/29 **Section:** 6100-02 **Surface:** AC
L.C.D. 7/6/2019 **Use:** RUNWAY **Rank:** S **Length:** 5,400.00 (Ft) **Width:** 100.00 (Ft) **True Area:** 540000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Network: Aniak Airport **Branch:** 6100 11/29 **Section:** 6100-03 **Surface:** AC

L.C.D. 7/6/2019 **Use:** RUNWAY **Rank:** S **Length:** 400.00 (Ft) **Width:** 100.00 (Ft) **True Area:** 40000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Network: Aniak Airport **Branch:** 6100 11/29 **Section:** 6100-04 **Surface:** AC

L.C.D. 7/6/2019 **Use:** RUNWAY **Rank:** T **Length:** 200.00 (Ft) **Width:** 140.00 (Ft) **True Area:** 28000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Network: Aniak Airport **Branch:** 6100 11/29 **Section:** 6100-05 **Surface:** AC

L.C.D. 7/6/2019 **Use:** RUNWAY **Rank:** T **Length:** 200.00 (Ft) **Width:** 140.00 (Ft) **True Area:** 28000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/6/2019	NC-IN	New Construction - Initial	0.00	4.00	☑	4" HMA, 9" Base, 16" Subbase, 84" S

Work History Report

Pavement Database: Alaska

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Cold Mill and Overlay - 3 Inches	1	215,089.00	3.00	0.00
Complete Reconstruction - AC	2	98,717.00	4.00	0.00
Crack Sealing - AC	2	253,206.00	0.00	0.00
New Construction - Initial	10	1,099,403.00	3.40	1.20

PHYSICAL PROPERTY DATA

		Pavement		Base		Subbase		Subgrade	
Branch ID	**Section ID**	**Thick (in)**	**Type**	**Thick (in)**	**Type**	**Thick (in)**	**Type**	**Type**	**CBR**
Taxiway F 0100	0100-01	4	P-401	9	P-209	16	P-154	GM	10
	0100-02	3	P-401	6	P-209	16	P-154	GM	10
Taxiway G 0200	0200-01	4	P-401	9	P-209	16	P-154	GM	10
Turnaround 0300	0300-01	4	P-401	9	P-209	16	P-154	GM	10
Apron 4100	4100-01	3	P-401	6	P-209	16	P-154	GM	10
Runway 11/29 6100	6100-01 West Displaced Threshold	4	P-401	9	P-209	16	P-154	GM	10
	6100-02 Runway	4	P-401	9	P-209	16	P-154	GM	10
	6100-03 East Displaced Threshold	4	P-401	9	P-209	16	P-154	GM	10
	6100-04 West Overrun	4	P-401	9	P-209	16	P-154	GM	10
	6100-05 East Overrun	4	P-401	9	P-209	16	P-154	GM	10

AIRCRAFT FLEET MIX

No.	Aircraft	Gross Wt (lb)	% Gross Wt on Main Gear	Tire Pressure (psi)	Annual Departures	20 Yr Coverages
1	S-3	2,450	95.0	41	311	733
2	Cessna 206	3,612	95.0	52	1,805	4,729
3	S-5	5,000	95.0	50	13	37
4	PA-32	3,400	95.0	50	150	388
5	S-10	10,000	95.0	50	5	18
6	S-15	15,000	95.0	50	32	132
7	Cessna 208B	8,750	95.0	75	137	417
8	PA-31-325	6,536	95.0	66	18	52
9	Shorts 330-200	22,900	95.0	79	2	8
10	C-130	155,000	95.0	105	24	556

PAVEMENT CLASSIFICATION RATINGS

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
11-29	C-130	434,251	15,000	29.0	1.0	882/F/B/X/T

PCR CALCULATION NOTES

- 1% traffic growth assumed
- Subgrade strength reduction for frost applied
- S-3, S-5, S-10 and S-15 refer to “generic” single gear aircraft as modeled in FAARFIELD

REFERENCES

Year	Project No.	Document Title
2017	3-02-0019-010, Z528070000	Construct Runway Shift, As-Built
1988	3-02-0019-02, 56231	Apron Expansion, As-Built
1985	3-02-0019-01, DO1262	Sand Storage Building, As-Built
1980	6-02-0019-02	Airport Fencing, As-Built
1972	3-02-0019-01	RW 10-28 Reconstruction, As-Built