

Alaska DOT&PF

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

Pavement Inspection Report **Akutan Airport**





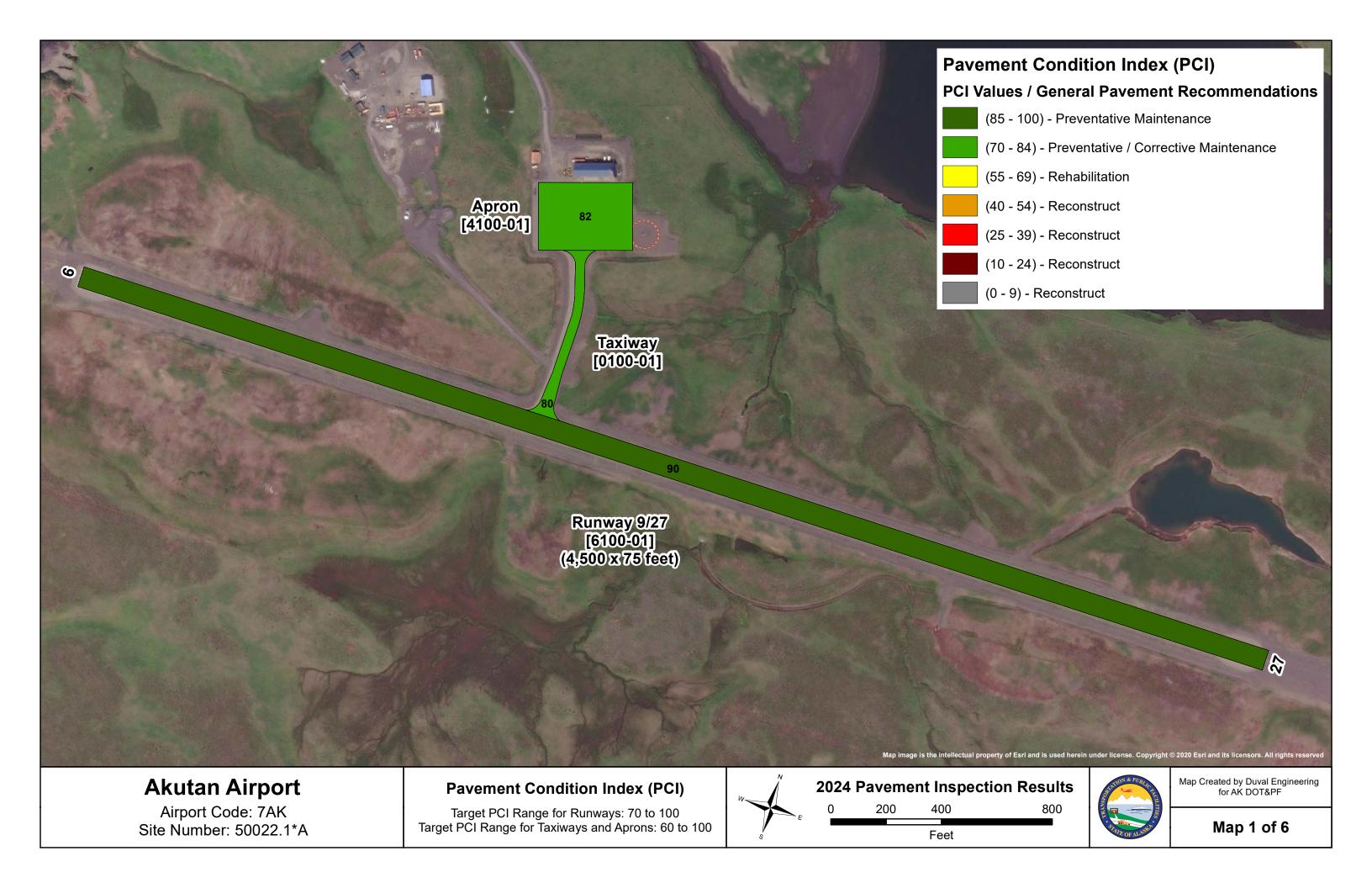
Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Akutan Airport	7AK	PAUT	54° 8' 40.6" N	165° 36' 14.79" W	129.3

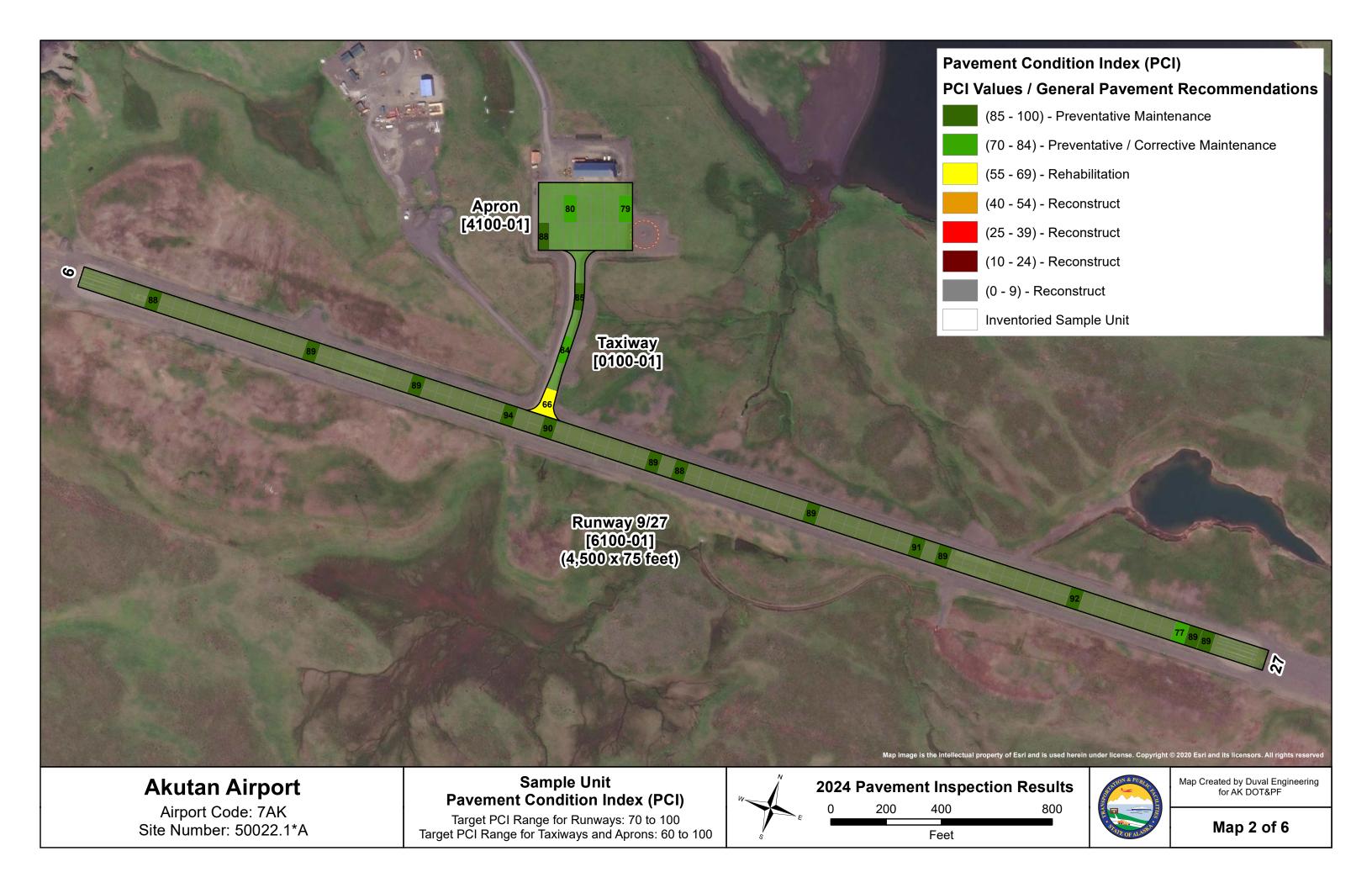
Please refer all questions or for further information about this report, please contact the AKDOT&PF Pavement Management and Preservation Office as follows:

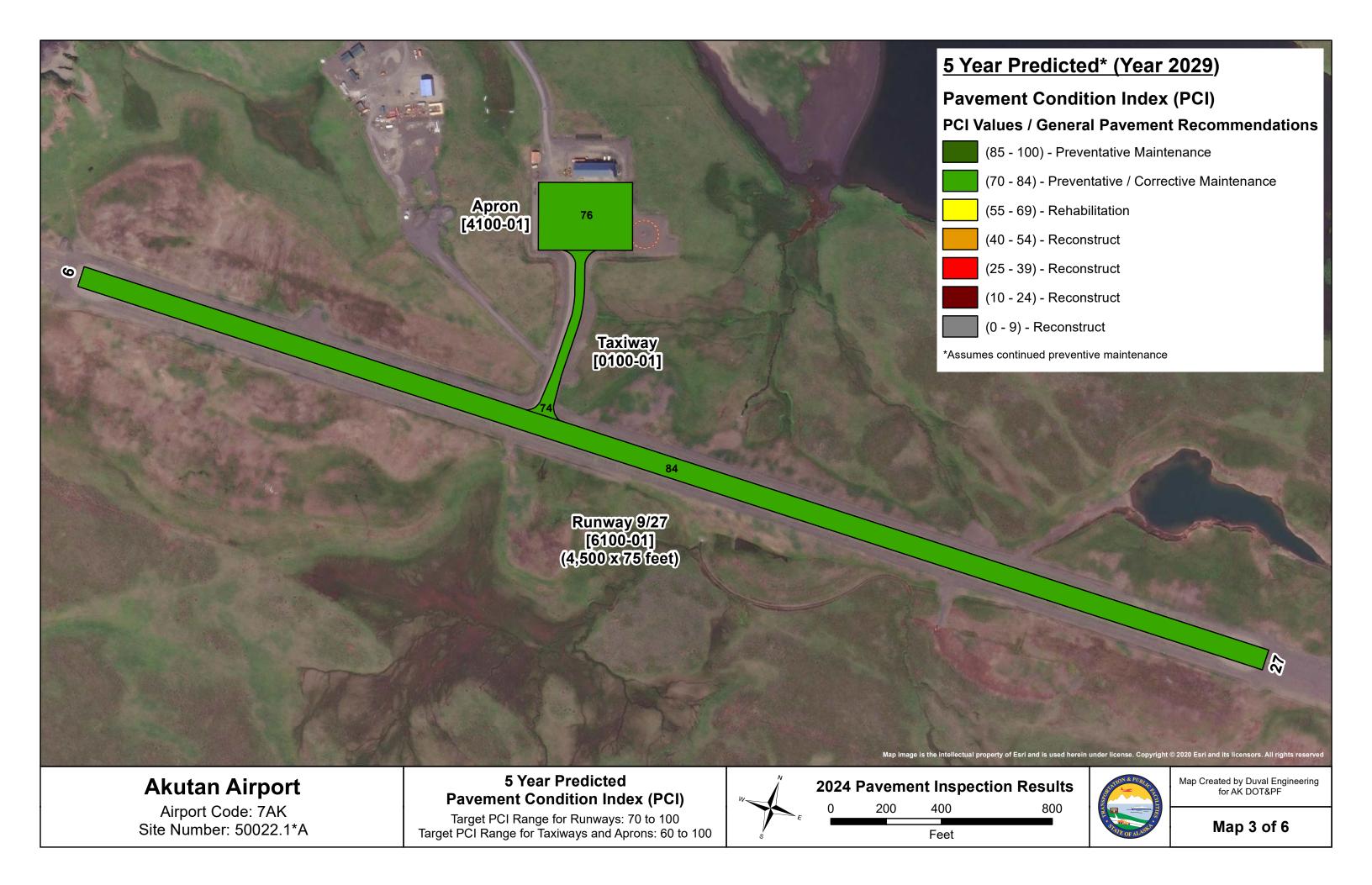
Point of Contact	Phone	Email	Date Inspected	Date Published
Mr. Andrew Pavey, Pavement Management Engineer	(907) 269 6213	andrew.pavey@alaska.gov	June 2024	June 2025

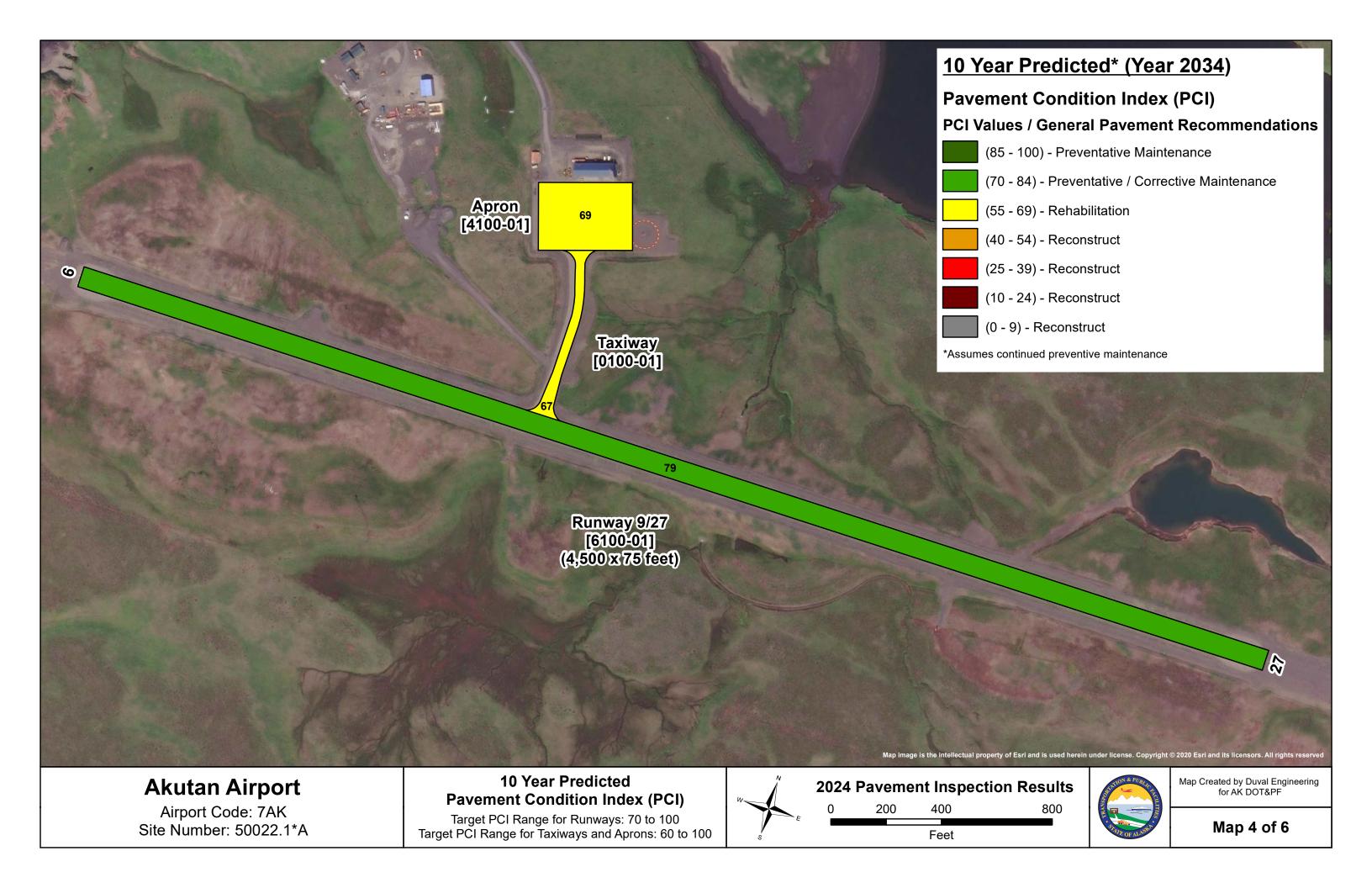
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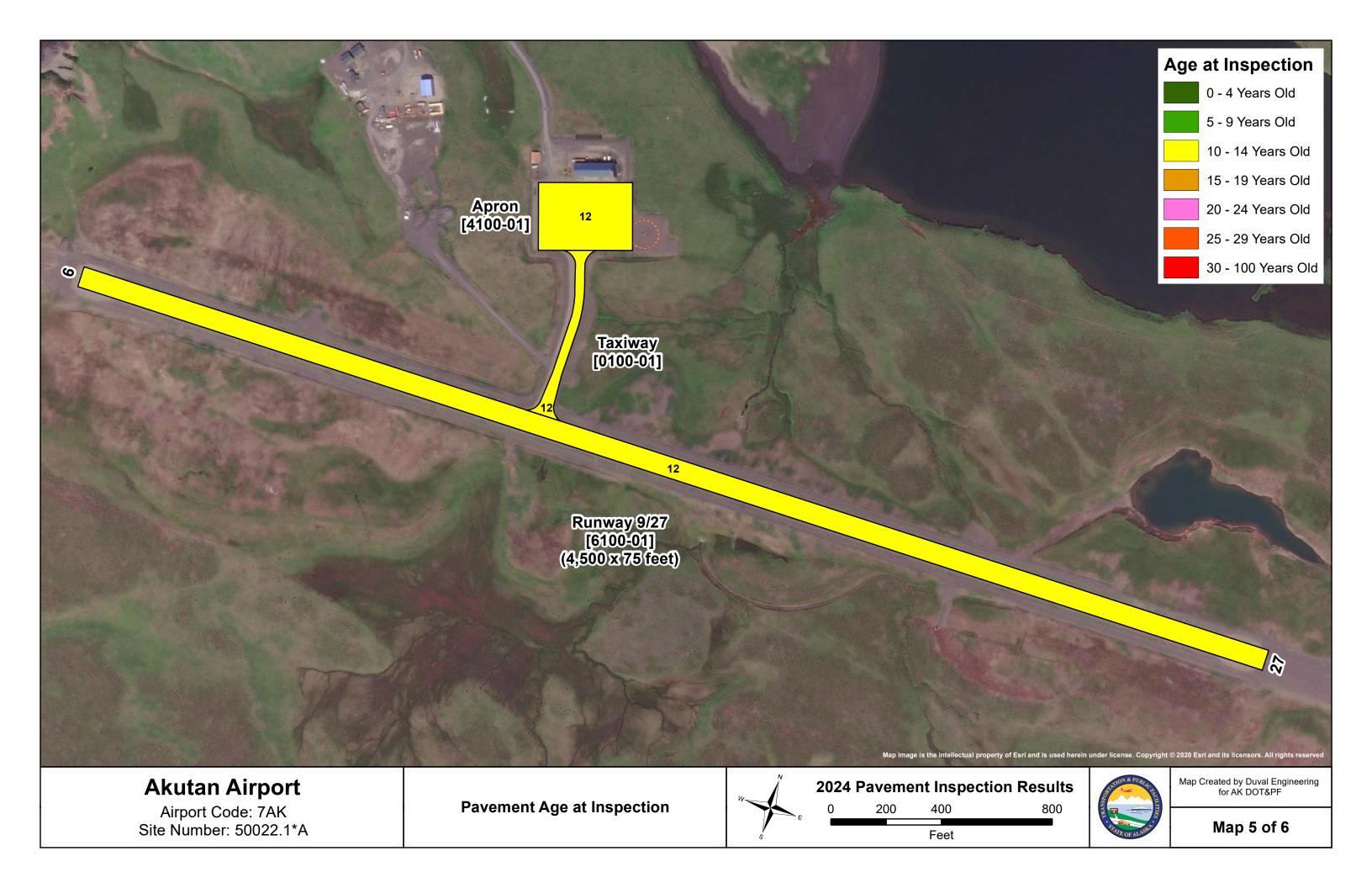
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 - o 10-Year Predicted PCI
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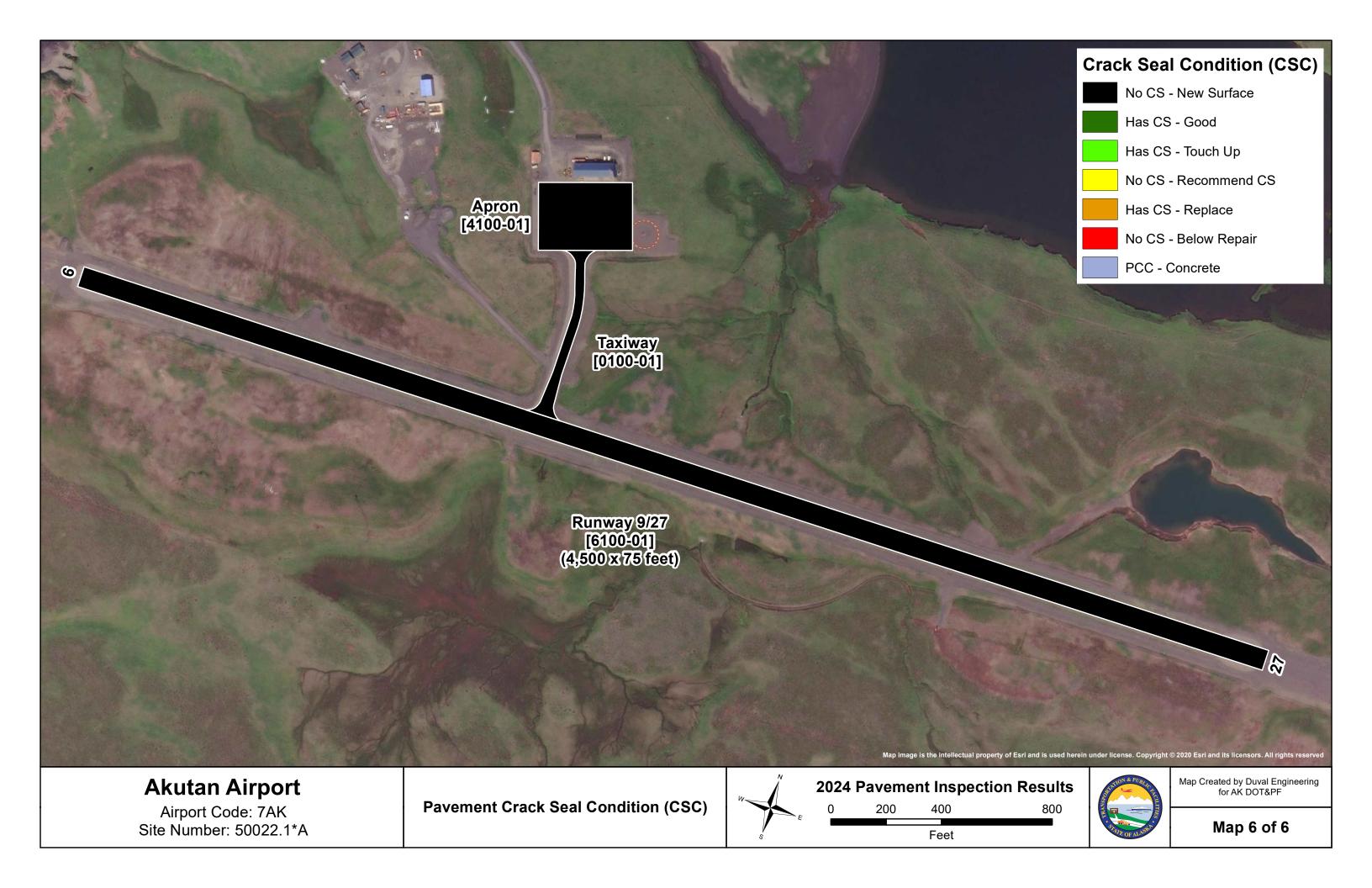








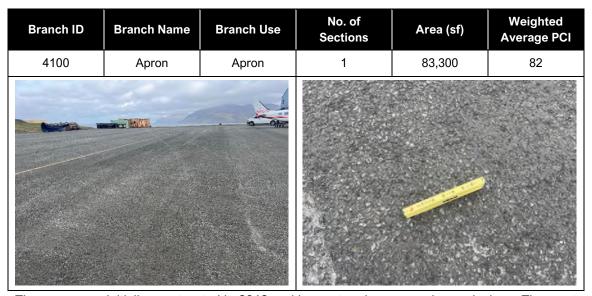




AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0100	Taxiway	Taxiway	1	25,148	80
				- 川田 	

The taxiway was initially constructed in 2012 and has not undergone major work since. The most common distresses observed are low to high severity raveling and low severity weathering. Field observations include further deterioration of the top layer of asphalt which is contributing to higher quantity and severity raveling throughout the branch. In contrast, it is noteworthy that no cracking was recorded during the inspection, suggesting that while the surface layer is deteriorating, the underlying structural layers are in relatively good condition.



The apron was initially constructed in 2012 and has not undergone major work since. The most common distresses observed are low severity raveling and low to medium severity weathering. Field observations include further deterioration of the top layer of asphalt which is contributing to higher quantity and severity raveling and weathering throughout the branch. In contrast, it is noteworthy that no cracking was recorded during the inspection, suggesting that while the surface layer is deteriorating, the underlying structural layers are in relatively good condition.



Runway 09/27 was initially constructed in 2012 and has not undergone any major work since. The most common distresses observed are low to high severity raveling and low severity weathering. Field observations include further deterioration of the top layer of asphalt which is contributing to higher quantity and severity raveling throughout the branch. Additionally, the paving joints are beginning to open, leading to the formation of linear cracks. Crack sealing may be warranted to mitigate the risk of Foreign Object Debris (FOD), which could pose a hazard to aircraft operations.

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	617	35	25,148	TAXIWAY	80.00	0.00	80.00
4100	1	340	245	83,300	APRON	82.00	0.00	82.00
6100	1	4,500	75	337,500	RUNWAY	90.00	0.00	90.00

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	83,300	82.00	0.00	82.00
RUNWAY	1	337,500	90.00	0.00	90.00
TAXIWAY	1	25,148	80.00	0.00	80.00
ALL	3	445,948	84.00	4.32	87.94

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	8/31/2012	AC	TAXIWAY	Т	25,148	6/10/2024	12	80
4100	4100-01	8/31/2012	AC	APRON	Т	83,300	6/10/2024	12	82
6100	6100-01	8/31/2012	AC	RUNWAY	Т	337,500	6/10/2024	12	90

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	12	445,948	3	84.00	4.32	87.94
ALL	12	445,948	3	84.00	4.32	87.94

Work History Report

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Pavement Database: Alaska

Network:	Network: Akutan Airport		Branch: 0100	Taxiwa	ay	Section:	0100-01	Surface:AC
L.C.D. 8/31/2	2012 Us	se: TAXIWAY	Rank: T L	ength: 617	.00 (Ft) Wi	dth: 35.0	0 (Ft) True Area:	25148 (SqFt)
Work Date	Work Code	Work Description		Cost Thickn (in)		Major M&R	Comi	nents
8/31/2012	NC-IN	New Construct	Construction - Initial		0.00	V	4" HMA, 7" Base,	12" Subbase (Fund

Network: Akutan Airport		Branch: 4100 Apron			Section:	4100-01	Surface:AC	
L.C.D. 8/31/2	2012 Us	se: APRON	Rank: T I	ength: 340	.00 (Ft) Wi	idth: 245.0	0 (Ft) True Area:	83300 (SqFt)
Work Date	Work Code	Work Description		Cost Thickn (in)		Major M&R	Com	ments
8/31/2012	NC-IN	New Construc	tion - Initial	0.00	0.00	>	4" HMA, 7" Base,	12" Subbase (Fund

Network: Akutan Airport		Branch: 6	100	09/2	7		Sect	ion: 610	0-01	Surface:AC	
L.C.D. 8/31/2	2012 Us	se: RUNWAY	Rank: T	L	ength: 4,5	00.00 (F	t) Wi	dth:	75.00 (F	(t) True Area:	337500 (SqFt)
Work Date	Work Code	Work D	escription		Cost		kness in)	Maj M&	,	Comi	ments
8/31/2012	NC-IN	New Construct	ion - Initial		0.00		0.00	\ \ \	4"	HMA, 7" Base,	12" Subbase (Fund

Pavement Management System PAVER 7.0 TM

Work History Report

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Pavement Database: Alaska

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
New Construction - Initial	3	445,948.00	0.00	0.00

Pavement Management System PAVER 7.0 TM

PHYSICAL PROPERTY DATA

		Pavement			Base		Subbase		Subgrade	
Branch ID	Section ID	Thick (in)	Туре	Thick (in)	Туре	Thick (in)	Туре	Туре	CBR	
Taxiway 100	0100-01	4	P-401	7	P-209	6	P-154	Shot Rock	26	
Apron 4100	4100-01	4	P-401	7	P-209	6	P-154	Shot Rock	26	
Runway 9/27 6100	6100-01	4	P-401	7	P-209	6	P-154	Shot Rock	26	

Notes: Alaska DOT&PF construction records show that the shot rock layer is 24 inches thick. Information about underlying layers was not available, so the shot rock layer is reported as subgrade.

AIRCRAFT FLEET MIX

No.	Aircraft	Gross Wt (lb)	% Gross Wt on Main Gear	Tire Pressure (psi)	Annual Departures	20 Yr Coverages
1	PA-31-325 Navajo C/R	6,536	95.0	66	778	6,273
2	D-15	17,120	95.0	63	24	264
3	Beech King Air B200	12,590	95.0	98	170	1,801
4	C-130	155,000	95.0	105	12	264

PAVEMENT CLASSIFICATION RATINGS

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
9-27	C-130	1,662,270	39,000	23.0	1.0	253/F/A/X/T

PCR CALCULATION NOTES

- 1% traffic growth assumed
- Subgrade strength reduction for frost applied
- D-15 refers to "generic" dual gear aircraft as modeled in FAARFIELD
- Computed PCR using FAARFIELD deemed excessive. PCR reduced to ACR of C-130 based on Using Aircraft Method (see FAA AC 150/5335-5D, para. 4.3).

REFERENCES

Year	Project No.	Document Title
2010	3-02-005-02, 51196	Design-Build