ASPHALT TECHNOLOGIES, INC.

CERTIFICATE OF ANALYSIS

January 28, 2014

Report For: Hi-Lite Markings, Inc.
1849 Hi Lite Dr.
Adams City, NY 13606

Attn: Brad Dunn **Email:** Brad@Hi-Lite.com

Sample ID: Arcadia Municipal Taxiway	**Project #:** HILT 09-02-01
Sample Date: Received 01/17/14	**Type:** Top 3/8" of Cores

OBJECTIVE: Evaluate pavement performance in accordance with the FAA P-632 Table 2 (pavement more than 3 years in age) Bituminous Pavement Rejuvenation specifications.

DATA/RESULTS:

PROPERTY		TEST METHOD	SPEC. FAA P-632 Table 2	RESULTS:						
				Control	0.05		0.065		0.075	
					Result	% Diff. From Control	Result	% Diff. From Control	Result	% Diff. From Control
Arcadia Municipal Taxiway Recovered Binder										
Complex Modulus, G*, kPa	60°C	AASHTO T 315	≥40% Decrease	103.8	11.53	-88.9	10.98	-89.4	10.56	-89.8
Viscosity ɳ = G* / ώ, Pa·s				103,800	11,530	-88.9	10,980	-89.4	10,560	-89.8
Phase Angle, δ, °			Report	59.13	75.29	27.3	76.03	28.6	75.17	27.1

CONCLUSION: The three application rates are in accordance with the FAA P-632 Table 2 stating samples must be reduced by at least 40% of the control Viscosity.

PROCEDURE: All cores were saw-cut removing the top 3/8" layer of the core. The material was broken up and extracted using method ASTM D 2172 (Method A) with toluene and ASTM D 5404 to recover the binder. Complex Modulus, Viscosity, and Phase Angle were tested by AASHTO T 315 using 1 rad/s.

Tested by: _____ Date: January 28, 2014
Elsa Rodriguez, Asphalt Binder Technician

Reviewed by: _____ Date: January 28, 2014
T. Christine Feaster, MS, EIT; Pavement Engineer

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