



G-MAX TEST REPORT

CLIENTS:

Jerry Brown
Tidora Systems, LLC
4202 Grant Street, NE
Washington, DC 20019

Department of General Services
2000 14th St NW
Washington, DC 20009

REPORT NUMBER

2019

Date 06-18-2019

DESCRIPTION

An independent analysis of synthetic turf relative to G-max was requested by the client. The Test was performed by a Licensed Professional Engineer at the below referenced location with ASTM certified and calibrated equipment via Triax "A" Missile SN30-9887 1683. The Test Methods are as follows;

*Method A - ASTM F 355, Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials.
ASTM F 1936-10, Standard Specification for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured on the Field, (G-max)*

The particulars of this on-site analysis are described below.

TEST INFORMATION

Project Name – Riggs Recreation Baseball Fields
Site address - 501 Riggs Street NE, Washington, DC
Test Type - Onsite G-max Test - 10 Locations
Field Type - Baseball-Softball (Sand/Rubber)

Test Date - 06-18-2019
Time of Test - 10:00am
Weather - Sun, 79°F
Installation Date - 2008
Field Temp - 90°F Average

TEST RESULTS

The following test results indicate G-max values for ten individual locations with three separate tests performed at each location. A table has been provided indicating the values associated with each test and a location map showing the ten individual tests at designated and described locations. ***The test results reported herein reflects the conditions of the tested field at the time and temperatures noted.***

TEST CONCLUSION

The Synthetic Turf Athletic Baseball and Softball Fields at Riggs Recreation Center as characterized above and in the following report has been verified to be **out of compliance** for shock attenuation and **does not meet the requirements** for play based on the specifications as referenced in ASTM F1936-10 with locations above the maximum allowable limit of 200. **NOTE: BASES MISSING AND GROUND SLEEVES EXPOSED.**

**Riggs Rec – Baseball/Softball Fields
Overall G-max = 181**

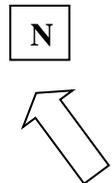
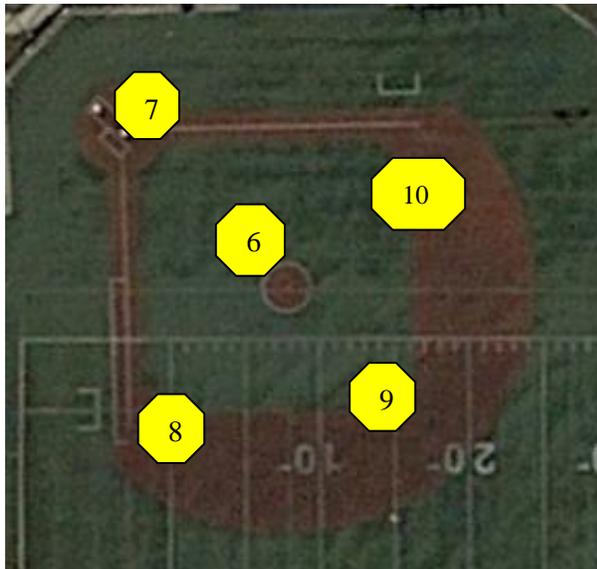
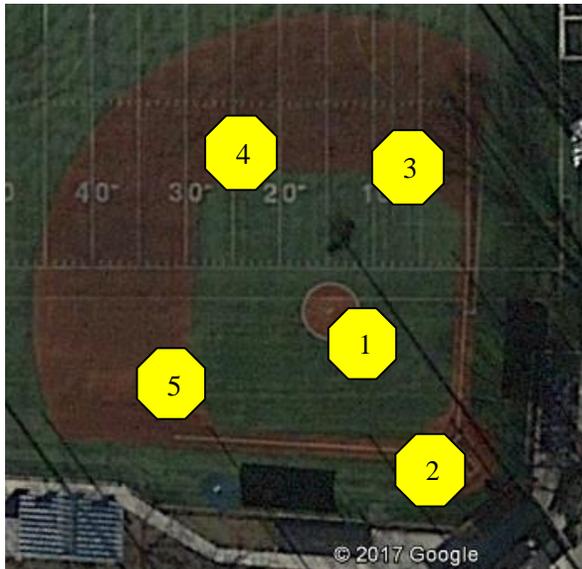
APPROVED BY - RYAN TEETER, P.E. - LDD Sports
(607) 351-8254
www.ldsports.com



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Riggs Rec Center - Baseball and Softball Fields									
G-max Values - 06.18.2019									
Test Location	Drop 1		Drop 2		Drop 3		Gmax Average	Infill Depth (mm)	Field Temp (°F)
	Gmax	HIC	Gmax	HIC	Gmax	HIC			
1	145	434	153	466	154	474	153.50	36	90
2	174	489	179	509	177	499	178.00	22	90
3	155	436	155	432	154	419	154.50	32	90
4	151	451	162	477	154	438	158.00	30	90
5	175	491	181	512	176	487	178.50	27	90
6	218	692	221	696	213	657	217.00	16	90
7	214	629	214	617	202	566	208.00	15	90
8	188	583	194	607	184	556	189.00	25	90
9	186	540	195	596	190	548	192.50	22	90
10	180	505	187	547	182	509	184.50	23	90
							181	Overall Average G-max	

Location	Specific Location Description
1	East Baseball Diamond - 3ft in front of pitching mound circle
2	East Baseball Diamond - Right Handed Batters Box
3	East Baseball Diamond - 3ft off first base towards 2nd
4	East Baseball Diamond - 3ft off second base towards 1st
5	East Baseball Diamond - 3ft off third base towards 2nd
6	West Softball Diamond - 3ft in front of pitching mound circle
7	West Softball Diamond - Right Handed Batters Box
8	West Softball Diamond - 3ft off first base towards 2nd
9	West Softball Diamond - 3ft off second base towards 1st
10	West Softball Diamond - 3ft off third base towards 2nd





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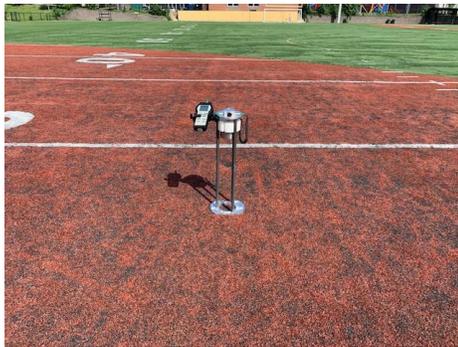
Location #1



Location #2



Location #3



Location #4



Location #5



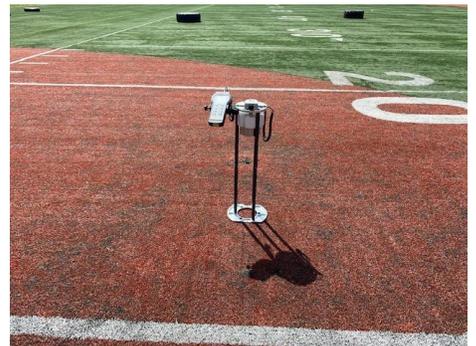
Location #6



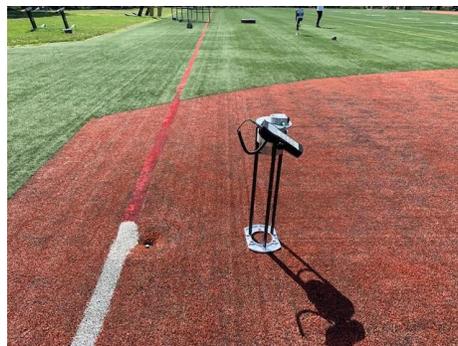
Location #7



Location #8



Location #9



Location #10