Radio Frequency Safety Survey Report

Prepared For: Fairfax County Public Schools

Fairfax County PUBLIC SCHOOLS
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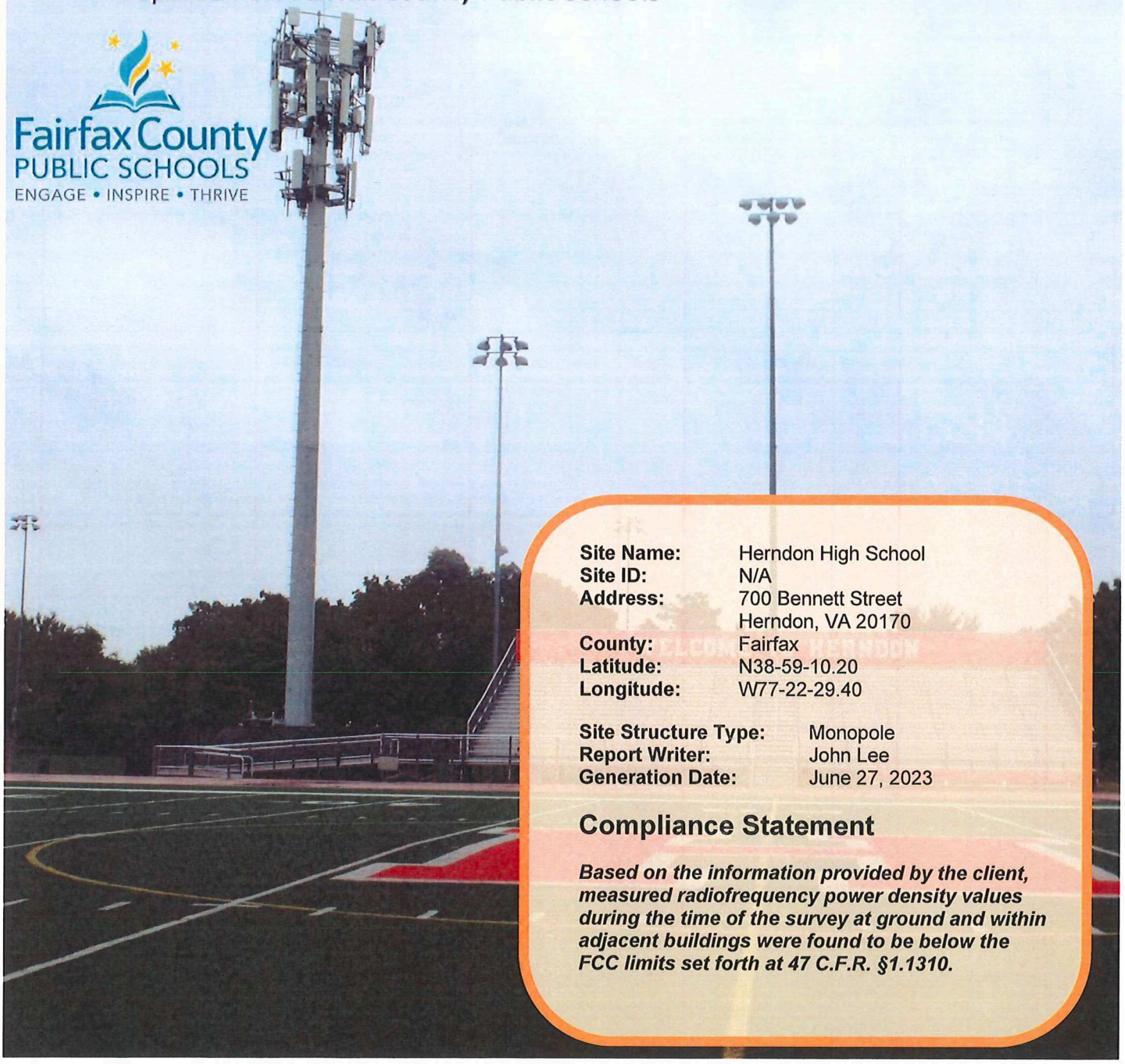

Site Name:	Herndon High School
Site ID:	N/A
Address:	700 Bennett Street Herndon, VA 20170
County:	Fairfax
Latitude:	N38-59-10.20
Longitude:	W77-22-29.40

Site Structure Type:	Monopole
Report Writer:	John Lee
Generation Date:	June 27, 2023

Compliance Statement

Based on the information provided by the client, measured radiofrequency power density values during the time of the survey at ground and within adjacent buildings were found to be below the FCC limits set forth at 47 C.F.R. §1.1310.

www.waterfordconsultants.com

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1 General Summary

Fairfax County Public Schools has contracted Waterford Consultants, LLC to conduct a Radiofrequency (RF) Electromagnetic Compliance assessment of the Herndon High School site located at 700 Bennett Street, Herndon, VA 20170. The compliance framework is derived from the FCC Rules and Regulations for preventing human exposure in excess of the applicable MPE (Maximum Permissible Exposure) limits. An overview of the applicable FCC Rules and analysis guidelines is presented in Appendix A. The subsequent sections contain information regarding the radio telecommunications equipment installed at this site and the surrounding environment with regard to RF Hazard compliance.

2 Site Survey Information

Access Restriction:	Locked fence gate.
Access Control:	Coordinate access with FCPS. Check in at the main office.
Survey Technician:	John Lee
Site Survey Date:	June 21, 2023
Meter Model/Serial:	Wave Control - SMP2Dual Field Meter / SN21-SN1517
Calibration Date:	May 12, 2023
Probe Model/Serial:	Wave Control - WSN0001 / SN21-WP220008
Calibration Date:	May 12, 2023

Site Photo

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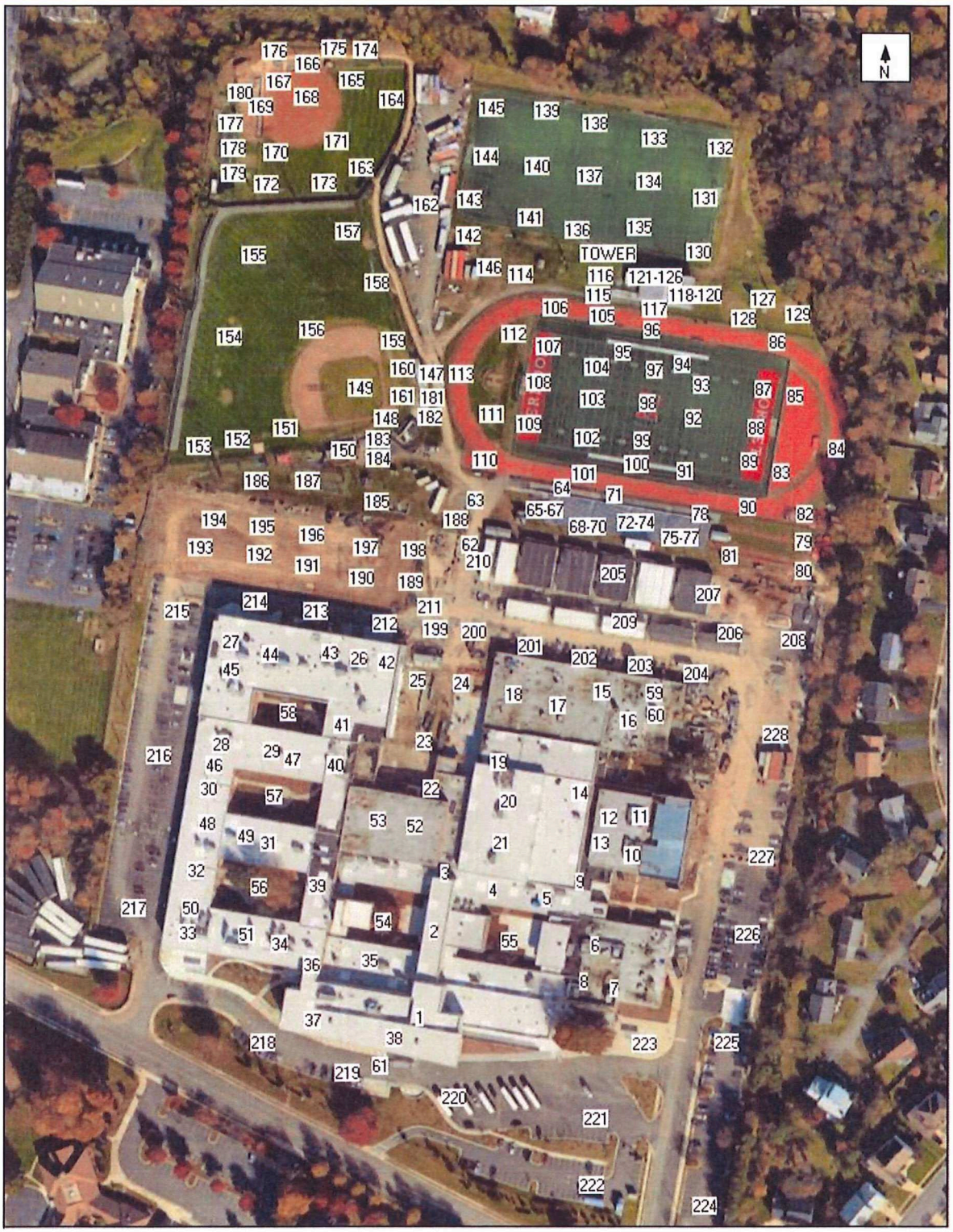

The above site map shows the measurement locations.

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Measurement Readings are Spatial Average as MPE % of the General Population Limits

Loc#	Site Reading		Loc#	Site Reading	
	Avg	Max		Avg	Max
1 (Inside)	0.0277%	0.0324%	2 (Inside)	0.0282%	0.0531%
3 (Inside)	0.0263%	0.0373%	4 (Inside)	0.0332%	0.0639%
5 (Inside)	0.0312%	0.0487%	6 (Inside)	0.0229%	0.0326%
7 (Inside)	0.0334%	0.0471%	8 (Inside)	0.0248%	0.0353%
9 (Inside)	0.0257%	0.0386%	10 (Inside)	0.0322%	0.0427%
11 (Inside)	0.0274%	0.0414%	12 (Inside)	0.0293%	0.0399%
13 (Inside)	0.0189%	0.0238%	14 (Inside)	0.0504%	0.0949%
15 (Inside)	0.0265%	0.0389%	16 (Inside)	0.0195%	0.0244%
17 (Inside)	0.0176%	0.0328%	18 (Inside)	0.0346%	0.0845%
19 (Inside)	0.0215%	0.0615%	20 (Inside)	0.0195%	0.0316%
21 (Inside)	0.0412%	0.0765%	22 (Inside)	0.0139%	0.0413%
23 (Inside)	0.0196%	0.0452%	24 (Inside)	0.0202%	0.0532%
25 (Inside)	0.0151%	0.0240%	26 (Inside)	0.0196%	0.0369%
27 (Inside)	0.0519%	0.0723%	28 (Inside)	0.0771%	0.2166%
29 (Inside)	0.0594%	0.1071%	30 (Inside)	0.0242%	0.0500%
31 (Inside)	0.0315%	0.0683%	32 (Inside)	0.0456%	0.1359%
33 (Inside)	0.0437%	0.1103%	34 (Inside)	0.0406%	0.0681%
35 (Inside)	0.0502%	0.1322%	36 (Inside)	0.0144%	0.0187%
37 (Inside)	0.0221%	0.0483%	38 (Inside)	0.0362%	0.1186%
39 (Inside)	0.0129%	0.0191%	40 (Inside)	0.0153%	0.0194%
41 (Inside)	0.0391%	0.1164%	42 (Inside)	0.0281%	0.0546%
43 (Inside)	0.0262%	0.0397%	44 (Inside)	0.0429%	0.0665%
45 (Inside)	0.0535%	0.1122%	46 (Inside)	0.0345%	0.1094%
47 (Inside)	0.0350%	0.0834%	48 (Inside)	0.0326%	0.0571%
49 (Inside)	0.0323%	0.0930%	50 (Inside)	0.0235%	0.0520%
51 (Inside)	0.0233%	0.0382%	52 (Inside)	0.0094%	0.0223%
53 (Inside)	0.0276%	0.0476%	54 (Inside)	0.0053%	0.0077%
55 (Inside)	0.0078%	0.0123%	56 (Inside)	0.0095%	0.0140%
57 (Inside)	0.0134%	0.0224%	58 (Inside)	0.0102%	0.0157%
59 (Inside)	0.0122%	0.0184%	60 (Inside)	0.0136%	0.0172%
61	0.0144%	0.0171%	62	0.0252%	0.0330%
63	0.0192%	0.0250%	64	0.0257%	0.0466%
65	0.0310%	0.0595%	66	0.0290%	0.0562%
67	0.0290%	0.0527%	68	0.0419%	0.0911%
69	0.0317%	0.0790%	70	0.0219%	0.0316%
71	0.0295%	0.0645%	72	0.0280%	0.0481%
73	0.0366%	0.0740%	74	0.0467%	0.1074%
75	0.2124%	0.5807%	76	0.1438%	0.4074%
77	0.0361%	0.0620%	78	0.0241%	0.0375%
79	0.0327%	0.0499%	80	0.0583%	0.1824%
81	0.0414%	0.1561%	82	0.0319%	0.0922%
83	0.0173%	0.0274%	84	0.0147%	0.0239%
85	0.0204%	0.0357%	86	0.0137%	0.0241%
87	0.0185%	0.0362%	88	0.0155%	0.0244%
89	0.0115%	0.0162%	90	0.0388%	0.1359%
91	0.0270%	0.0739%	92	0.0280%	0.0856%
93	0.0338%	0.0684%	94	0.0334%	0.1264%
95	0.0231%	0.0493%	96	0.0157%	0.0230%
97	0.0291%	0.0606%	98	0.0296%	0.0548%
99	0.0197%	0.0280%	100	0.0176%	0.0323%
101	0.0288%	0.0432%	102	0.0167%	0.0214%
103	0.0285%	0.0398%	104	0.0421%	0.1864%
105	0.0211%	0.0582%	106	0.0213%	0.0348%
107	0.0174%	0.0246%	108	0.0210%	0.0313%
109	0.0253%	0.0783%	110	0.0236%	0.0393%
111	0.0170%	0.0228%	112	0.0151%	0.0187%

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Loc#	Site Reading		Loc#	Site Reading	
	Avg	Max		Avg	Max
113	0.0178%	0.0316%	114	0.0185%	0.0263%
115	0.0157%	0.0196%	116	0.0193%	0.0236%
117	0.0259%	0.0385%	118	0.0542%	0.0812%
119	0.0388%	0.0584%	120	0.0661%	0.0988%
121	0.0708%	0.1203%	122	0.0367%	0.0749%
123	0.0355%	0.0477%	124	0.0197%	0.0459%
125	0.0282%	0.0527%	126	0.0198%	0.0291%
127	0.0133%	0.0207%	128	0.0153%	0.0208%
129	0.0127%	0.0313%	130	0.0282%	0.0698%
131	0.0277%	0.0586%	132	0.0271%	0.1128%
133	0.0230%	0.0481%	134	0.0214%	0.0564%
135	0.0250%	0.0642%	136	0.0546%	0.1303%
137	0.0251%	0.0448%	138	0.0238%	0.1145%
139	0.0297%	0.0402%	140	0.0274%	0.0352%
141	0.0237%	0.0321%	142	0.0284%	0.0391%
143	0.0227%	0.0314%	144	0.0207%	0.0282%
145	0.0198%	0.0289%	147	0.0120%	0.0166%
146	0.0138%	0.0302%	148	0.0149%	0.0230%
149	0.0140%	0.0200%	150	0.0116%	0.0184%
151	0.0169%	0.0219%	152	0.0147%	0.0196%
153	0.0197%	0.0283%	154	0.0237%	0.0577%
155	0.0189%	0.0382%	156	0.0152%	0.0204%
157	0.0148%	0.0191%	158	0.0178%	0.0218%
159	0.0141%	0.0188%	160	0.0171%	0.0220%
161	0.0163%	0.0362%	162	0.0146%	0.0264%
163	0.0173%	0.0270%	164	0.0137%	0.0196%
165	0.0589%	0.1143%	166	0.0195%	0.0378%
167	0.0173%	0.0208%	168	0.0181%	0.0356%
169	0.0172%	0.0252%	170	0.0204%	0.0241%
171	0.0148%	0.0190%	172	0.0167%	0.0241%
173	0.0173%	0.0280%	174	0.0186%	0.0288%
175	0.0162%	0.0191%	176	0.0175%	0.0238%
177	0.0152%	0.0246%	178	0.0205%	0.0346%
179	0.0231%	0.0357%	180	0.0345%	0.0526%
181	0.0135%	0.0203%	182	0.0132%	0.0180%
183	0.0194%	0.0364%	184	0.0184%	0.0247%
185	0.0212%	0.0421%	186	0.0142%	0.0247%
187	0.0239%	0.0353%	188	0.0192%	0.0288%
189	0.0112%	0.0166%	190	0.0133%	0.0194%
191	0.0143%	0.0216%	192	0.0206%	0.0254%
193	0.0176%	0.0230%	194	0.0240%	0.0392%
195	0.0188%	0.0251%	196	0.0227%	0.0392%
197	0.0208%	0.0323%	198	0.0150%	0.0198%
199	0.0175%	0.0221%	200	0.0135%	0.0206%
201	0.0427%	0.0754%	202	0.0438%	0.1368%
203	0.0317%	0.0780%	204	0.0366%	0.1365%
205	0.0309%	0.0423%	206	0.0169%	0.0319%
207	0.0161%	0.0214%	208	0.0177%	0.0227%
209	0.0155%	0.0198%	210	0.0153%	0.0211%
211	0.0151%	0.0230%	212	0.0165%	0.0215%
213	0.0149%	0.0189%	214	0.0138%	0.0173%
215	0.0160%	0.0232%	216	0.0146%	0.0218%
217	0.0155%	0.0216%	218	0.0128%	0.0170%
219	0.0174%	0.0267%	220	0.0214%	0.0298%
221	0.0163%	0.0294%	222	0.0203%	0.0244%
223	0.0150%	0.0213%	224	0.0186%	0.0258%
235	0.0168%	0.0361%	226	0.0237%	0.0314%
227	0.0165%	0.0257%	228	0.0205%	0.0292%

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Summary: The maximum spatially averaged power density reading was 0.2124% of the FCC General Population limits

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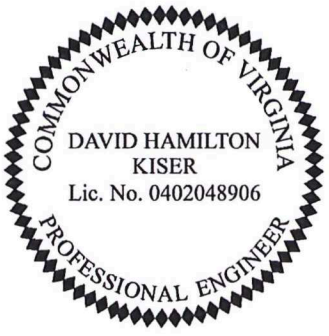
5 Recommendations for Compliance

RF power density measurements at interior and ground locations at the site were found to be below Radiofrequency Emissions Maximum Permissible Exposure (MPE) General Population limits.

No actions are required at this time.

6 Reviewer Certification

I have reviewed this RF Emissions assessment report and believe it to be both true and accurate to the best of my knowledge.



David Hamilton Kiser
Registered Professional Engineer (Electrical)
Commonwealth of Virginia
Number 0402048906, 12/31/2023
Date: 2023-June-30

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