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Sandra Klepacki, REHS/RS
Chief, Environmental Projects
NYC Environmental Protection Bureau of Water Supply
Environmental, Health & Safety Directorate
465 Columbus Avenue
Valhalla, New York 10595

Subject: Former Mt. Kisco Wastewater Treatment Plant
Radiological Characterization Survey Addendum

Dear Ms. Klepacki:

This letter report concerns the addition of gamma radiation data collected from the 1 Morgan Drive property to the overall gamma map presented in the Former Mt. Kisco WWTP Characterization Survey Report of 08-2019.

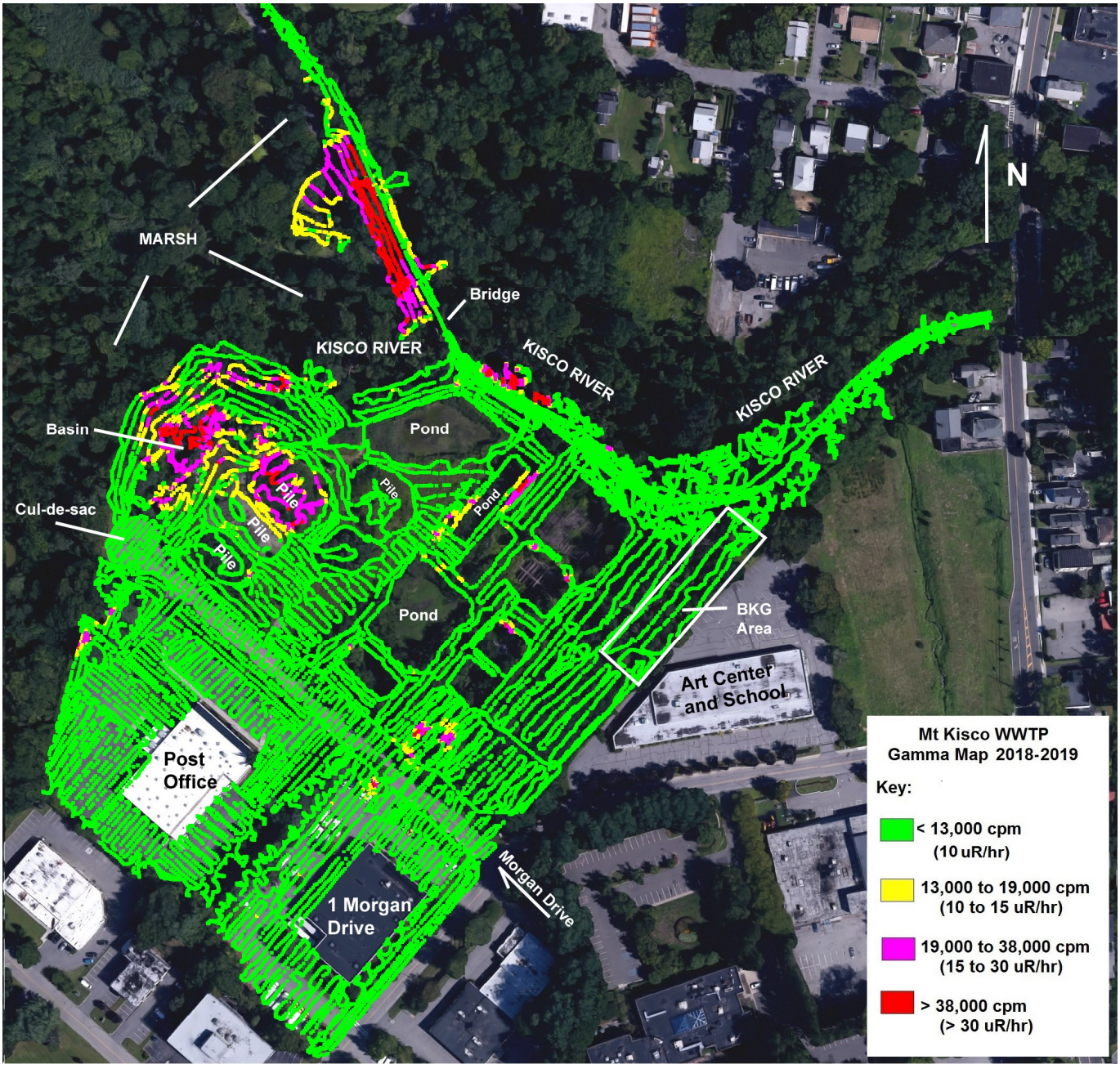
On October 23, 2019, CoPhysics personnel scanned the outdoor areas of the 1 Morgan Drive property using the same GPS-based, gamma detection instrumentation used for the 08-2019 survey. See the 08-2019 report for a description of the site and the radiation detection methods used. A summary of the results of the 1 Morgan Drive scan is shown in Table 1 below along with the summaries from the Total WWTP scan and background area scan.

Table 1 – Summary of Readings

Area	Number of Readings	Mean CPS (uR/hr)	Std Dev CPS (uR/hr)	Maximum CPS (uR/hr)	Minimum CPS (uR/hr)
1 Morgan Dr.	2864	147.1 (10.3)	58.2 (4.1)	1117 (78.1)	70 (4.9)
Background	395	101.6 (7.1)	8.4 (0.6)	132 (9.2)	79 (5.5)
Total WWTP to date	33500	183.2 (12.8)	273.8 (19.2)	11863 (830)	67 (4.7)

After the additional 1 Morgan Drive scan, the gamma-GPS data was appended to the main gamma-map database and replotted. The updated gamma-map for the entire former WWTP property is shown in Figure 1.

Figure 1 – Updated (October 23, 2019) Gamma-Map of the Former Mt. Kisco WWTP



Results and Conclusions

The gamma scan of 1 Morgan Drive showed only one small spot of potential radium contamination. The spot is located in the northern corner of the property as fill around 3 trees in the grassy area between Morgan Drive and the parking lot. The maximum reading at the ground surface was 1117 CPS (67,000 CPM) with the Ludlum 44-10 detector (approximately 78 uR/hr). No elevated radiation levels were detected in the parking lot or on the sidewalk near the elevated spot. There is no radiation hazard for persons passing through this area. A person could stand on the spot for 1000 hours and still be within the annual exposure regulatory limit.

The volume of contaminated soil in this spot is relatively small and would not significantly affect our prior estimates of the total volume of contaminated soil present on the entire WWTP site.

Questions regarding this survey may be addressed to the undersigned.

Sincerely,

Theodore E Rahon

Theodore E. Rahon, Ph.D., CHP
President