

Correction



## **Correction: Manawi et al. Evaluation of the Radon Levels in the Groundwater Wells of Qatar: Radiological Risk Assessment.** *Water* 2023, *15*, 4026

Yehia Manawi <sup>1,\*</sup>, Ayesha Ahmad <sup>2</sup>, Mosab Subeh <sup>1</sup>, Mohammad Hushari <sup>3</sup>, Sayed Bukhari <sup>2</sup> and Huda Al-Sulaiti <sup>1,\*</sup>

- <sup>1</sup> Qatar Environment and Energy Research Institute, Hamad Bin Khalifa University, Qatar Foundation, Doha P.O. Box 34110, Qatar; mkareemsubeh@hbku.edu.qa
- <sup>2</sup> Ministry of Environment and Climate Change, Doha P.O. Box 7634, Qatar; ayahmad@mecc.gov.qa (A.A.); sjbukhari@mecc.gov.qa (S.B.)
- <sup>3</sup> RADPRO Company for Trading and Training, Doha P.O. Box 34110, Qatar; mmhushari@radpro-ttr.com
  - Correspondence: ymanawi@hbku.edu.qa (Y.M.); halsulaiti@hbku.edu.qa (H.A.-S.)

In the original publication [1], there was a mistake in Figure 3b and Table 2 as published. The figure and table did not have correct pH, EC and TDS values for three groundwater wells. Table 2 now presents the correct values for groundwater wells in Qatar. Additionally, there have been modifications to the statistical analysis following the changes in the corrected physical parameters values. The corrected Figure 3b and Table 2 appears below: Updated Table 2:

Table 2. Physico-chemical parameters of the surveyed groundwater wells.

	Well ID	pН	EC (mS/cm)	TDS (mg/L)
	592	7.99 ± 0.31	$3.68 \pm 0.23$	$2392 \pm 150$
	661	$7.74\pm0.11$	$6.60\pm0.02$	$4620\pm14$
	677	$7.77\pm0.04$	$6.84\pm0.08$	$4785\pm53$
	819	$7.58\pm0.13$	$10.88\pm0.02$	$7616\pm14$
	903	$7.79 \pm 0.00$	$6.66 \pm 0.11$	$4659\pm74$
	1224	$6.24\pm0.65$	$41.70\pm20.85$	$14,595 \pm 146$
	1272	$7.80 \pm 0.15$	$5.23\pm0.10$	$3658\pm67$
5.;	1449	$7.82\pm0.15$	$4.13\pm0.08$	$2680\pm51$
,	1574	$7.72\pm0.04$	$2.50\pm0.06$	$1625\pm39$
i	1762	$7.82 \pm 0.10$	$1.32\pm0.05$	$711.7\pm34$
vels	1803	$6.82\pm0.79$	$26.15\pm2.15$	$18,305 \pm 1505$
ar:	1891	$7.95\pm0.19$	$1.64\pm0.04$	$1068\pm24$
ater	1993	$7.96\pm0.14$	$3.29\pm0.03$	$2135\pm23$
	2049	$6.36\pm2.75$	$36.63\pm21.87$	$25,\!641 \pm 1530$
	2121	$7.44\pm0.09$	$19.43\pm0.05$	$13,601 \pm 35$
839	2217	$7.84 \pm 0.00$	$6.56\pm0.04$	$4592\pm28$
	2242	$7.48 \pm 0.38$	$3.35\pm0.01$	$2178\pm6.5$
	2357	$7.83 \pm 0.05$	$2.61\pm0.06$	$1693\pm34$
	2534	$8.01\pm0.12$	$1.34\pm0.01$	$874\pm9.1$
	2626	$7.79\pm0.09$	$6.11\pm0.08$	$4277\pm56$
	2709	$7.54\pm0.00$	$25.40\pm0.10$	$17,780 \pm 70$
	2874	$7.90\pm0.06$	$1.80\pm0.02$	$1169\pm12$
	2940	$7.80\pm0.08$	$4.25\pm0.02$	$2760\pm16$
	2990	$7.80\pm0.00$	$4.26\pm0.14$	$2767\pm88$
hors.	3001	$7.75\pm0.02$	$4.86\pm0.06$	$3159\pm39$
and.	3189	$7.74\pm0.02$	$12.73\pm0.20$	$8911 \pm 140$
ticle	3233	$7.64\pm0.02$	$10.56\pm0.08$	$7390\pm53$
	3266	$7.71\pm0.07$	$2.26\pm0.09$	$1414\pm 6$
and	3279	$6.41 \pm 3.21$	$4.35\pm2.18$	$1413\pm14.1$
nons	3327	$7.44 \pm 0.25$	$12.32\pm0.37$	$8624\pm259$
s://	3518	$7.77\pm0.12$	$3.68\pm0.07$	$2389 \pm 42$
ov/	3800	$7.75\pm0.13$	$2.49\pm0.09$	$1615\pm55$
	3890	$7.79\pm0.08$	$9.62\pm0.14$	$6730\pm95$



Citation: Manawi, Y.; Ahmad, A.; Subeh, M.; Hushari, M.; Bukhari, S.; Al-Sulaiti, H. Correction: Manawi et al. Evaluation of the Radon Levels in the Groundwater Wells of Qatar: Radiological Risk Assessment. *Water* 2023, *15*, 4026. *Water* **2024**, *16*, 839. https://doi.org/10.3390/w16060839

Received: 25 January 2024 Accepted: 30 January 2024 Published: 14 March 2024

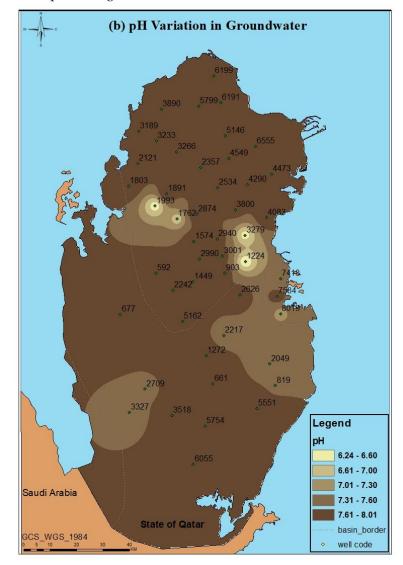


**Copyright:** © 2024 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https:// creativecommons.org/licenses/by/ 4.0/).

Well ID	pН	EC (mS/cm)	TDS (mg/L)		
4083	$7.97 \pm 0.13$	$4.86\pm0.05$	$3159\pm33$		
4290	$7.86 \pm 0.09$	$2.55\pm0.03$	$1658\pm20$		
4473	$7.82\pm0.02$	$13.80\pm0.19$	$9660 \pm 133$		
4549	$7.93 \pm 0.10$	$2.95\pm0.22$	$1918 \pm 143$		
5146	$7.93 \pm 0.21$	$3.19\pm0.07$	$2073\pm46$		
5162	$7.73\pm0.30$	$6.94\pm0.01$	$4858\pm7$		
5551	$7.79\pm0.09$	$8.92\pm0.01$	$6240 \pm 10.5$		
5754	$7.77\pm0.11$	$5.22\pm0.04$	$3651\pm31.5$		
5799	$7.65\pm0.06$	$9.08\pm0.14$	$6352\pm95$		
6055	$7.64 \pm 0.03$	$19.42\pm0.21$	$13,591 \pm 144$		
6191	$7.87 \pm 0.07$	$7.80\pm0.04$	$5465\pm32$		
6199	$7.83 \pm 0.04$	$12.85\pm0.06$	$8995\pm42$		
6555	$7.82\pm0.06$	$11.46\pm0.19$	$8019 \pm 130$		
7418	$7.34\pm0.12$	$45.05\pm0.25$	$31,535 \pm 175$		
7584	$7.82\pm0.18$	$7.87\pm0.04$	$5510 \pm 50$		
8019	$7.74\pm0.03$	$4.61\pm0.07$	$2993\pm49$		
Statistical Analysis					
Min	6.24	1.32	711.7		
Max	8.01	45.05	31,535		
Mean	7.65	9.42	6094		
Standard Deviation	0.40	9.91	732		

Table 2. Cont.

Updated Figure 3b:



In addition, there was a mistake in the legend/caption for Figure 7. The words "logarithmic axis" were not included in the caption. The correct legend appears below: **Figure 7.** The correlation between radon gas concentration in groundwater and (**a**) pH and (**b**) TDS (logarithmic axis).

The results and discussion part concerning the physical parameters range which was just updated needs to be amended in order to reflect the changes in the physical parameters. A correction has been made to Results and Discussions, Physico-Chemical Parameters (pH and SEC), paragraph 5: The analyzed groundwater wells in the present study showed a TDS range between  $711.7 \pm 34$  and  $31,535 \pm 175$  mg/L.

A correction has been made to Results and Discussions, Physico-Chemical Parameters (pH and SEC), paragraph 1: With regard to pH, the pH of all the studied samples was found to almost fall within the WHO/Qatari drinking water standards.

The correlation coefficients of Figure 7a must be updated in order to reflect the changes in the physical parameters updated earlier. A correction has been made to Results and Discussions, Radon measurement, paragraph 2: This can be supported by observing the coefficients of determination ( $R^2$ ) for both plots, which were 0.067 and 0.094.

The authors state that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

## Reference

 Manawi, Y.; Ahmad, A.; Subeh, M.; Hushari, M.; Bukhari, S.; Al-Sulaiti, H. Evaluation of the Radon Levels in the Groundwater Wells of Qatar: Radiological Risk Assessment. *Water* 2023, 15, 4026. [CrossRef]

**Disclaimer/Publisher's Note:** The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of MDPI and/or the editor(s). MDPI and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.