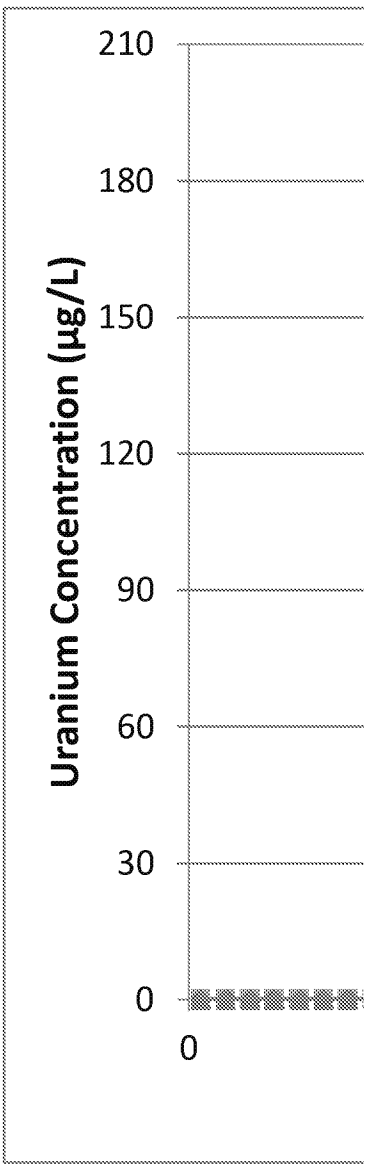
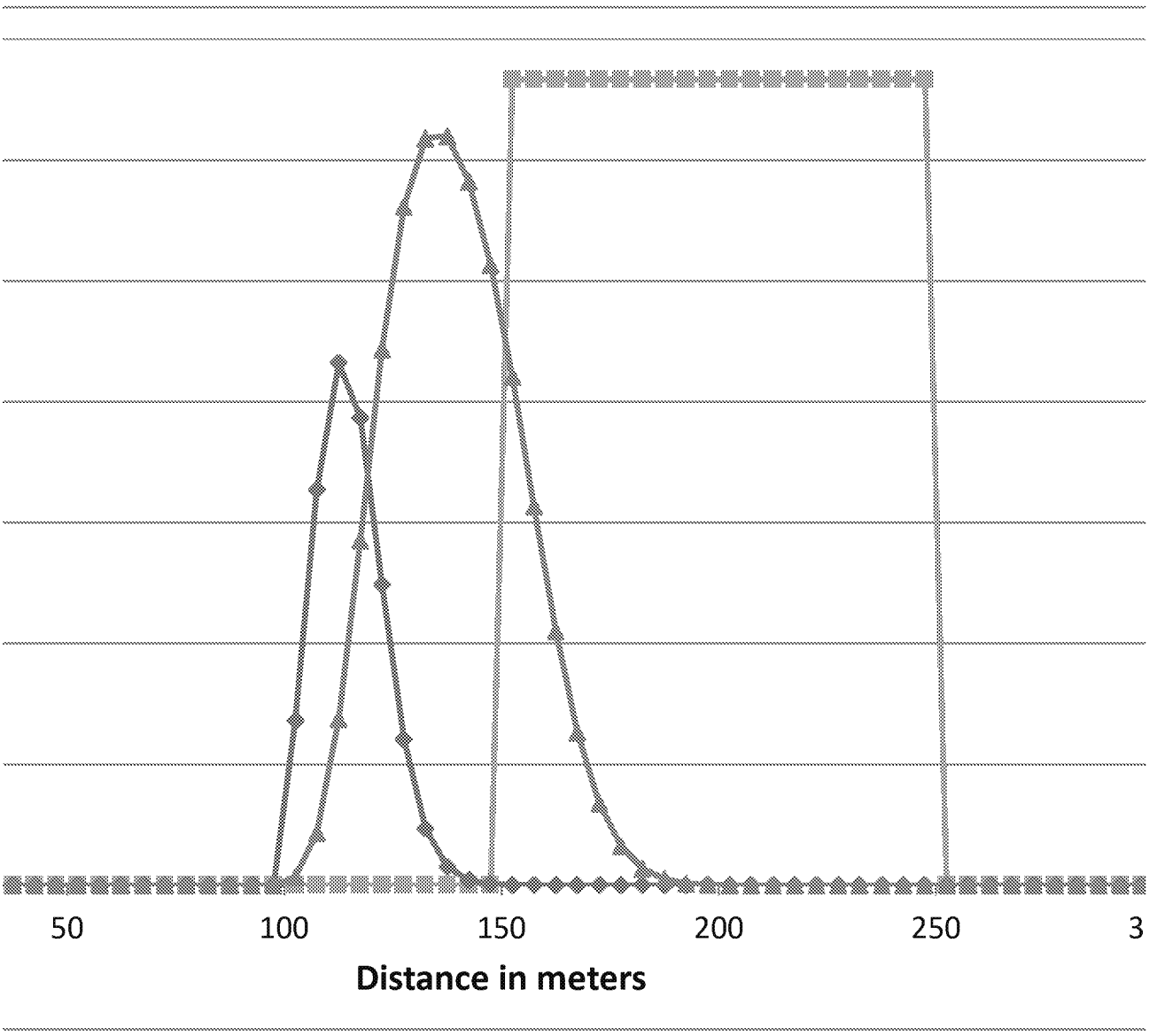
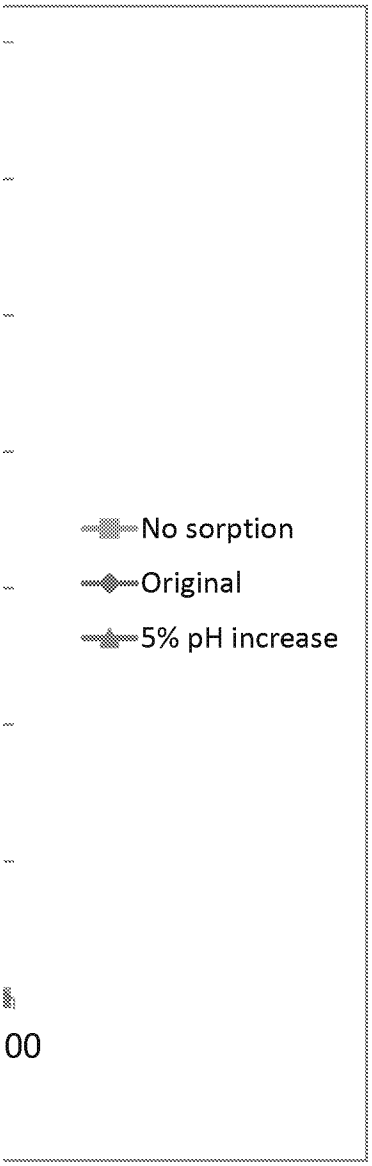
Distance in meters	fix log ks estimate sds	no sorption	Original
2.5	0	0	0
7.5	0	0	0
12.5	0	0	0
17.5	0	0	0
22.5	0	0	0
27.5	0	0	0
32.5	0	0	0
37.5	0	0	0
42.5	0	0	0
47.5	0	0	0
52.5	0	0	0
57.5	0	0	0
62.5	0	0	0
67.5	0	0	0
72.5	0	0	0
77.5	0	0	0
82.5	0	0	0
87.5	0	0	0
92.5	0	0	0
97.5	0	0	0
102.5	1.973843993	0	40.79778745
107.5	13.03470848	0	98.09308836
112.5	41.3331281	0	129.5721997
117.5	85.64334477	0	116.0553179
122.5	133.0249752	0	74.65726122
127.5	168.4857051	0	36.21242488
132.5	185.3851534	0	14.08295282
137.5	185.991257	0	4.613665969
142.5	174.7064313	0	1.307482937
147.5	153.9704316	0	0.324223367
152.5	126.2584671	200	0.070892887
157.5	93.97127754	200	0.013611105
162.5	63.04075984	200	0.002306516
167.5	37.88085065	200	0.000345258
172.5	20.33705711	200	4.57E-05
177.5	9.743130196	200	5.33E-06
182.5	4.158261915	200	5.49E-07
187.5	1.576251678	200	4.97E-08
192.5	0.528335292	200	3.95E-09
197.5	0.15567718	200	2.73E-10
202.5	0.040030831	200	1.64E-11
207.5	0.008901743	200	8.50E-13
212.5	0.001692407	200	3.74E-14
217.5	0.000271075	200	1.38E-15
222.5	3.58693E-05	200	4.10E-17
227.5	3.81608E-06	200	0



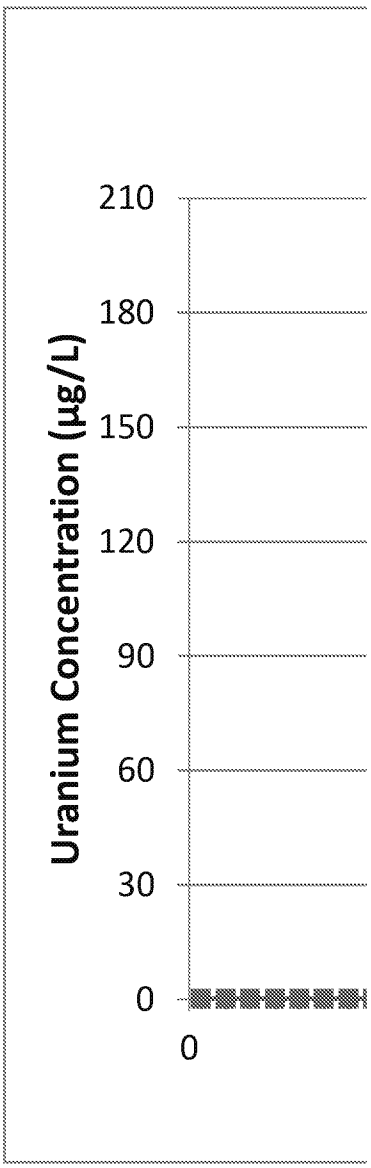


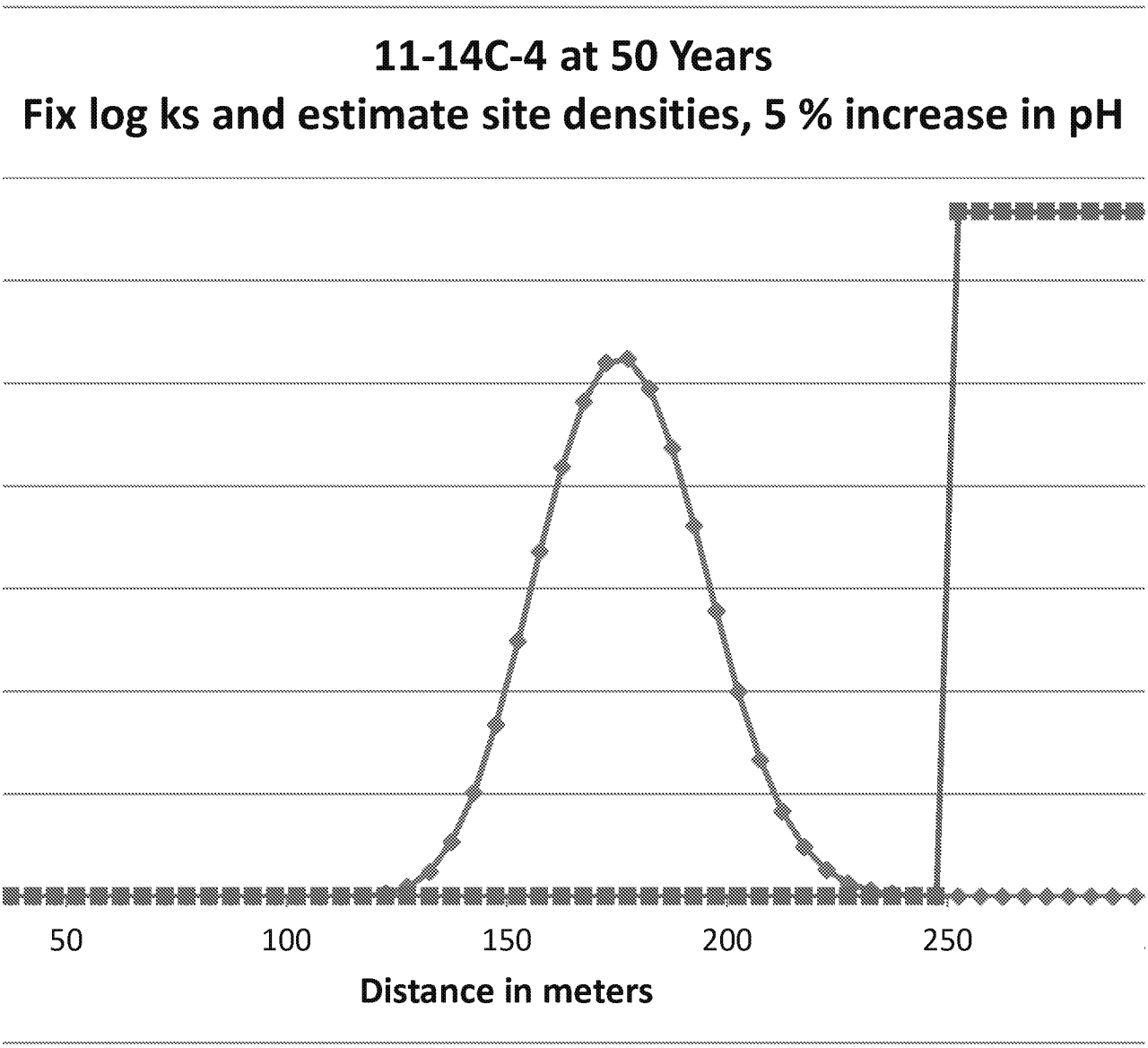
No sorption
5% pH increase


No sorption
Original
5% pH increase
00

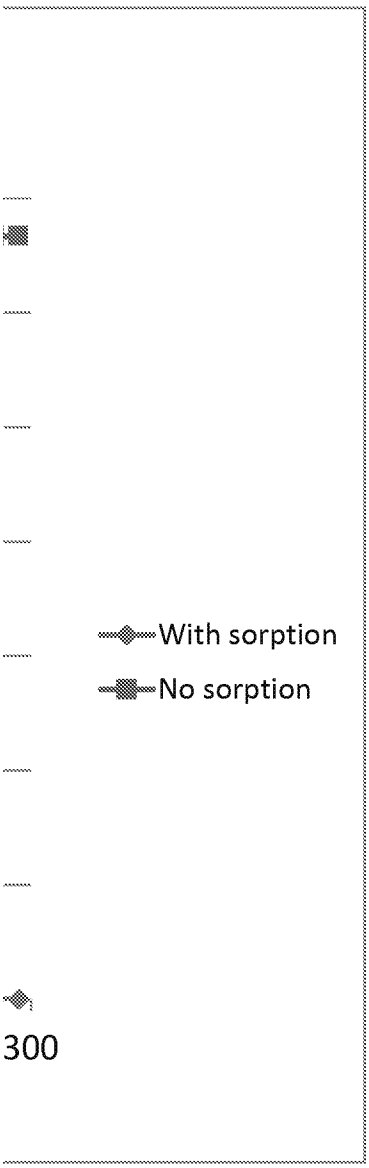
232.5	3.13679E-07	200	0
237.5	1.8695E-08	200	0
242.5	7.1878E-10	200	0
247.5	1.33832E-11	200	0
252.5	0	0	0
257.5	0	0	0
262.5	0	0	0
267.5	0	0	0
272.5	0	0	0
277.5	0	0	0
282.5	0	0	0
287.5	0	0	0
292.5	0	0	0
297.5	0	0	0

Distance in meters	fix log ks estimate sds	no sorption
2.5	0	0
7.5	0	0
12.5	0	0
17.5	0	0
22.5	0	0
27.5	0	0
32.5	0	0
37.5	0	0
42.5	0	0
47.5	0	0
52.5	0	0
57.5	0	0
62.5	0	0
67.5	0	0
72.5	0	0
77.5	0	0
82.5	0	0
87.5	0	0
92.5	0	0
97.5	0	0
102.5	0.000243119	0
107.5	0.004355217	0
112.5	0.037922306	0
117.5	0.213978321	0
122.5	0.880466816	0
127.5	2.82103411	0
132.5	7.348052052	0
137.5	16.06566106	0
142.5	30.2564673	0
147.5	50.16147632	0
152.5	74.55037815	0
157.5	100.7961373	0
162.5	125.3965842	0
167.5	144.7379608	0
172.5	155.8719826	0
177.5	157.1180077	0
182.5	148.3854917	0
187.5	131.1946643	0
192.5	108.386218	0
197.5	83.49837536	0
202.5	59.90304572	0
207.5	40.0098839	0
212.5	24.89276211	0
217.5	14.43868181	0
222.5	7.812505758	0
227.5	3.943633865	0



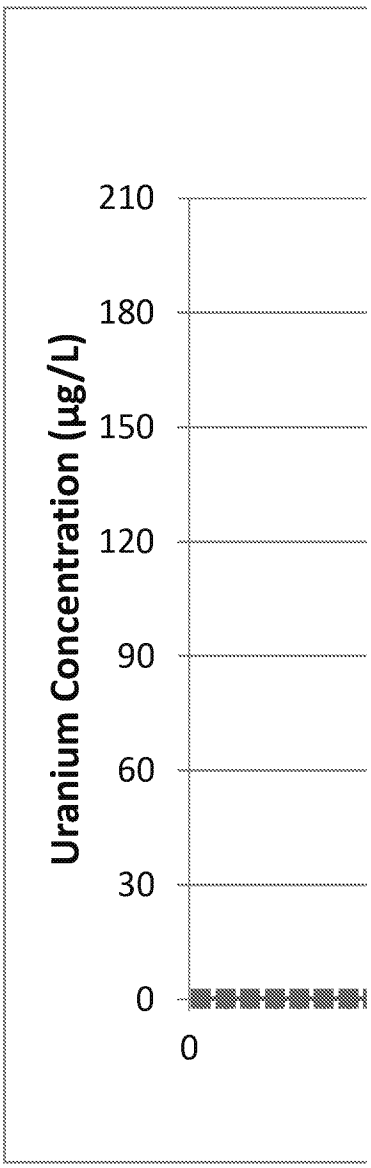


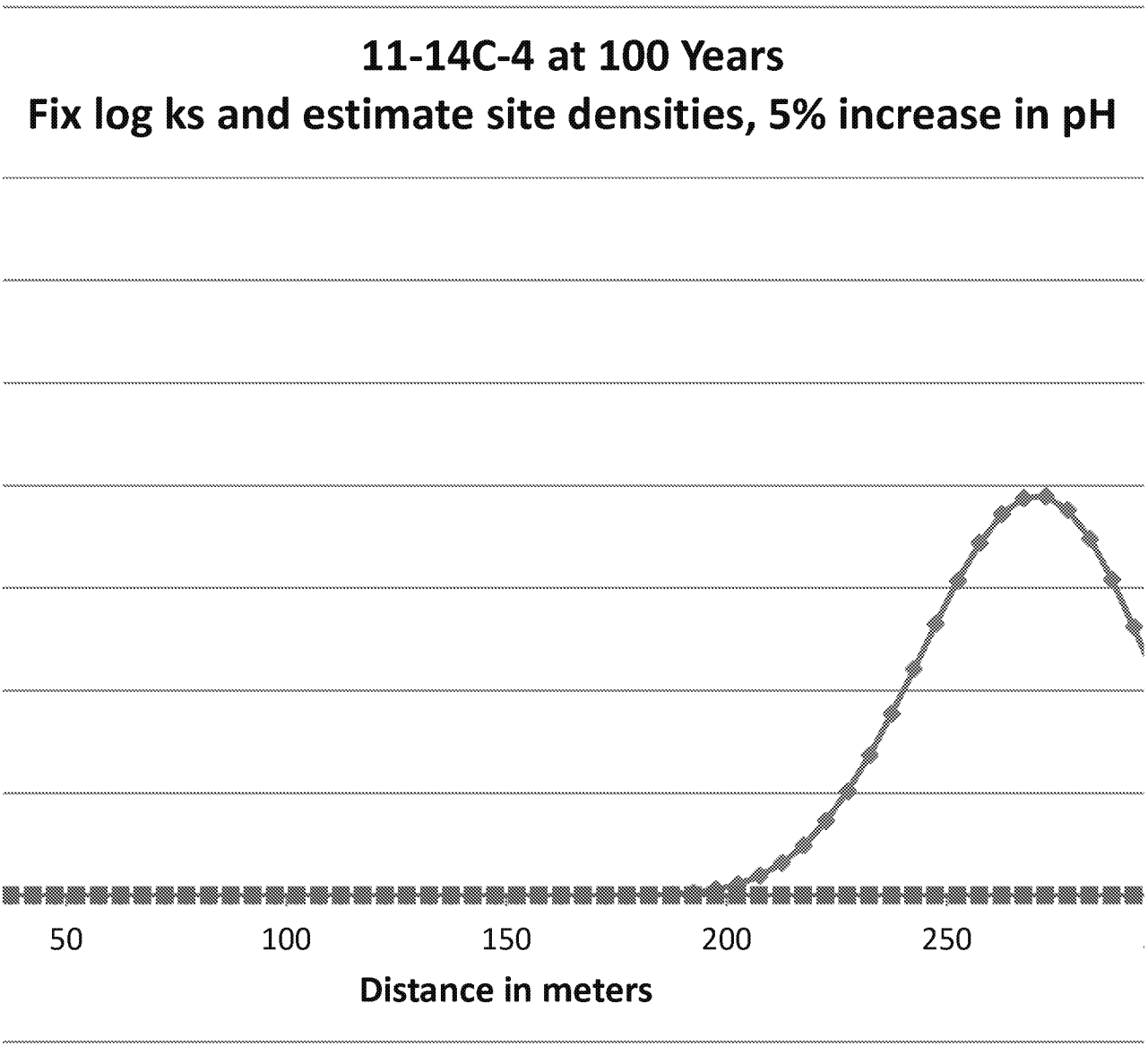
No sorption
With sorption


With sorption
No sorption
300

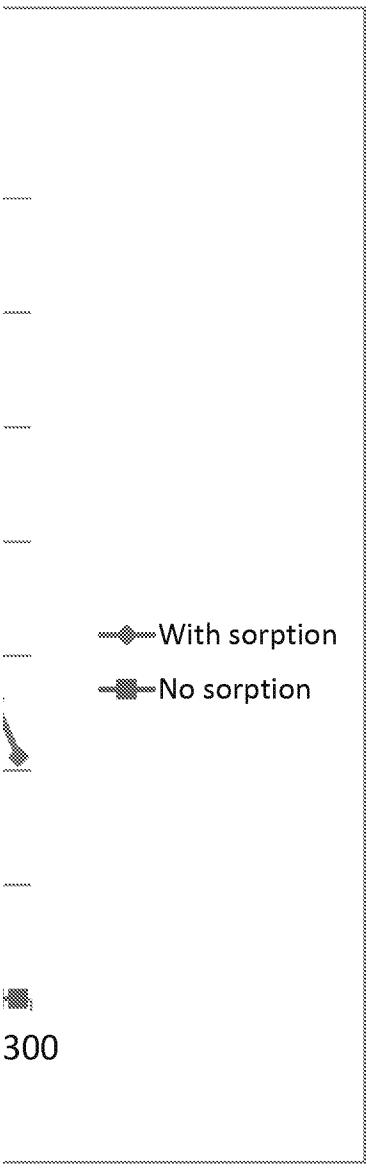
232.5	1.856239738	0
237.5	0.813915241	0
242.5	0.332008115	0
247.5	0.125788746	0
252.5	0.044380221	200
257.5	0.014374731	200
262.5	0.004294498	200
267.5	0.001180231	200
272.5	0.000297475	200
277.5	6.85265E-05	200
282.5	1.43701E-05	200
287.5	2.73046E-06	200
292.5	4.67529E-07	200
297.5	7.16726E-08	200

Distance in meters	fix log ks estimate sds	no sorption
2.5	0	0
7.5	0	0
12.5	0	0
17.5	0	0
22.5	0	0
27.5	0	0
32.5	0	0
37.5	0	0
42.5	0	0
47.5	0	0
52.5	0	0
57.5	0	0
62.5	0	0
67.5	0	0
72.5	0	0
77.5	0	0
82.5	0	0
87.5	0	0
92.5	0	0
97.5	0	0
102.5	4.10913E-14	0
107.5	1.90411E-12	0
112.5	4.35737E-11	0
117.5	6.5717E-10	0
122.5	7.34466E-09	0
127.5	6.48904E-08	0
132.5	4.71968E-07	0
137.5	2.90654E-06	0
142.5	1.54696E-05	0
147.5	7.22804E-05	0
152.5	0.000300166	0
157.5	0.001118998	0
162.5	0.003775724	0
167.5	0.011611117	0
172.5	0.03273479	0
177.5	0.085039479	0
182.5	0.204480186	0
187.5	0.456918559	0
192.5	0.952290478	0
197.5	1.85750292	0
202.5	3.402143779	0
207.5	5.870291556	0
212.5	9.573823961	0
217.5	14.80770408	0
222.5	21.79384957	0
227.5	30.62432459	0



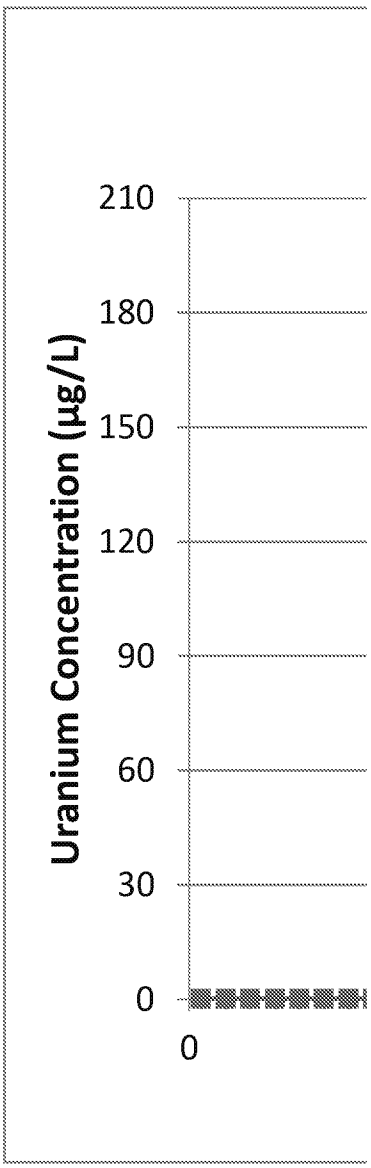


No sorption
With sorption

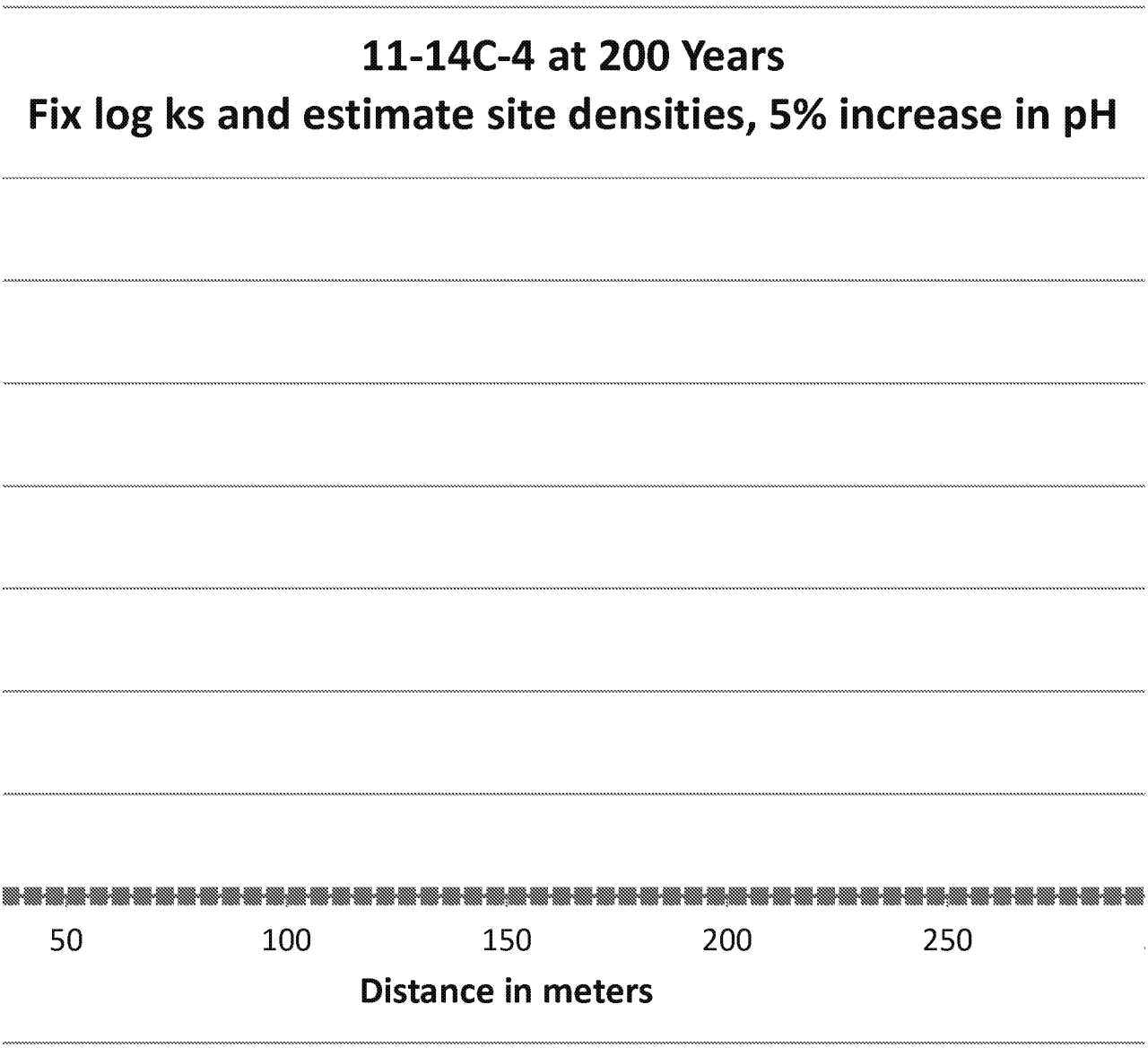

With sorption
No sorption
300

232.5	41.21465135	0
237.5	53.27447635	0
242.5	66.29828268	0
247.5	79.57620773	0
252.5	92.2256364	0
257.5	103.2472596	0
262.5	111.6120589	0
267.5	116.3843313	0
272.5	116.876353	0
277.5	112.8109782	0
282.5	104.4447658	0
287.5	92.59174431	0
292.5	78.50649383	0
297.5	63.63992071	0

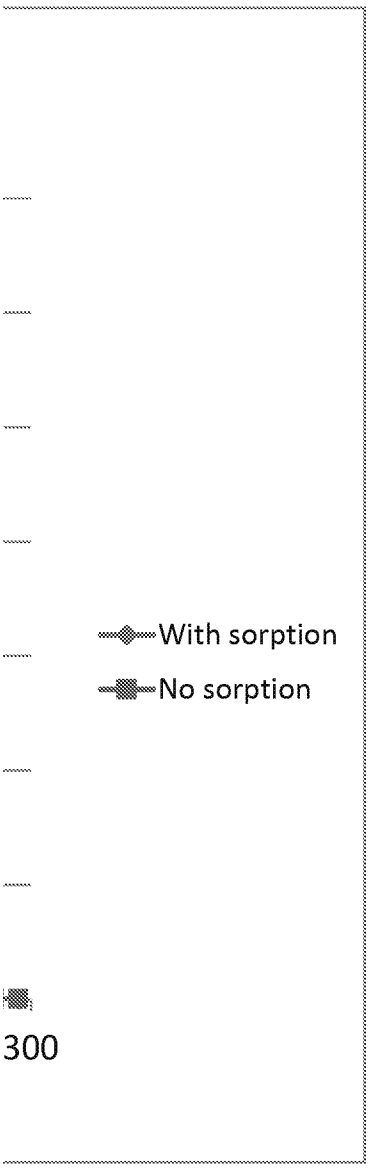
Distance in meters	fix log ks estimate sds	no sorption
2.5	0	0
7.5	0	0
12.5	0	0
17.5	0	0
22.5	0	0
27.5	0	0
32.5	0	0
37.5	0	0
42.5	0	0
47.5	0	0
52.5	0	0
57.5	0	0
62.5	0	0
67.5	0	0
72.5	0	0
77.5	0	0
82.5	0	0
87.5	0	0
92.5	0	0
97.5	0	0
102.5	0	0
107.5	0	0
112.5	0	0
117.5	0	0
122.5	0	0
127.5	0	0
132.5	0	0
137.5	0	0
142.5	0	0
147.5	0	0
152.5	0	0
157.5	0	0
162.5	0	0
167.5	3.53948E-17	0
172.5	2.41737E-16	0
177.5	1.14132E-15	0
182.5	5.8314E-15	0
187.5	2.92457E-14	0
192.5	1.42766E-13	0
197.5	6.78613E-13	0
202.5	3.12738E-12	0
207.5	1.36995E-11	0
212.5	5.69919E-11	0
217.5	2.25505E-10	0
222.5	8.5009E-10	0
227.5	3.0581E-09	0



11-14C-4 at 200 Years
Fix log ks and estimate site densities, 5% increase in pH

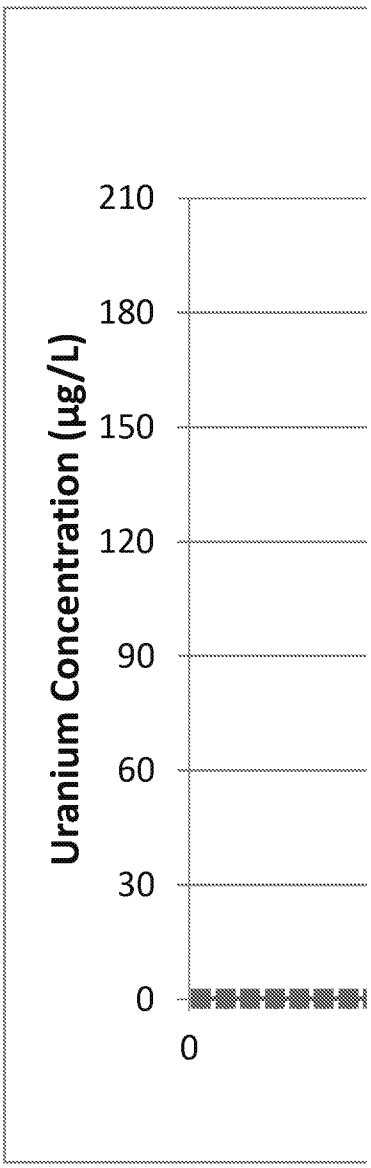


No sorption
With sorption

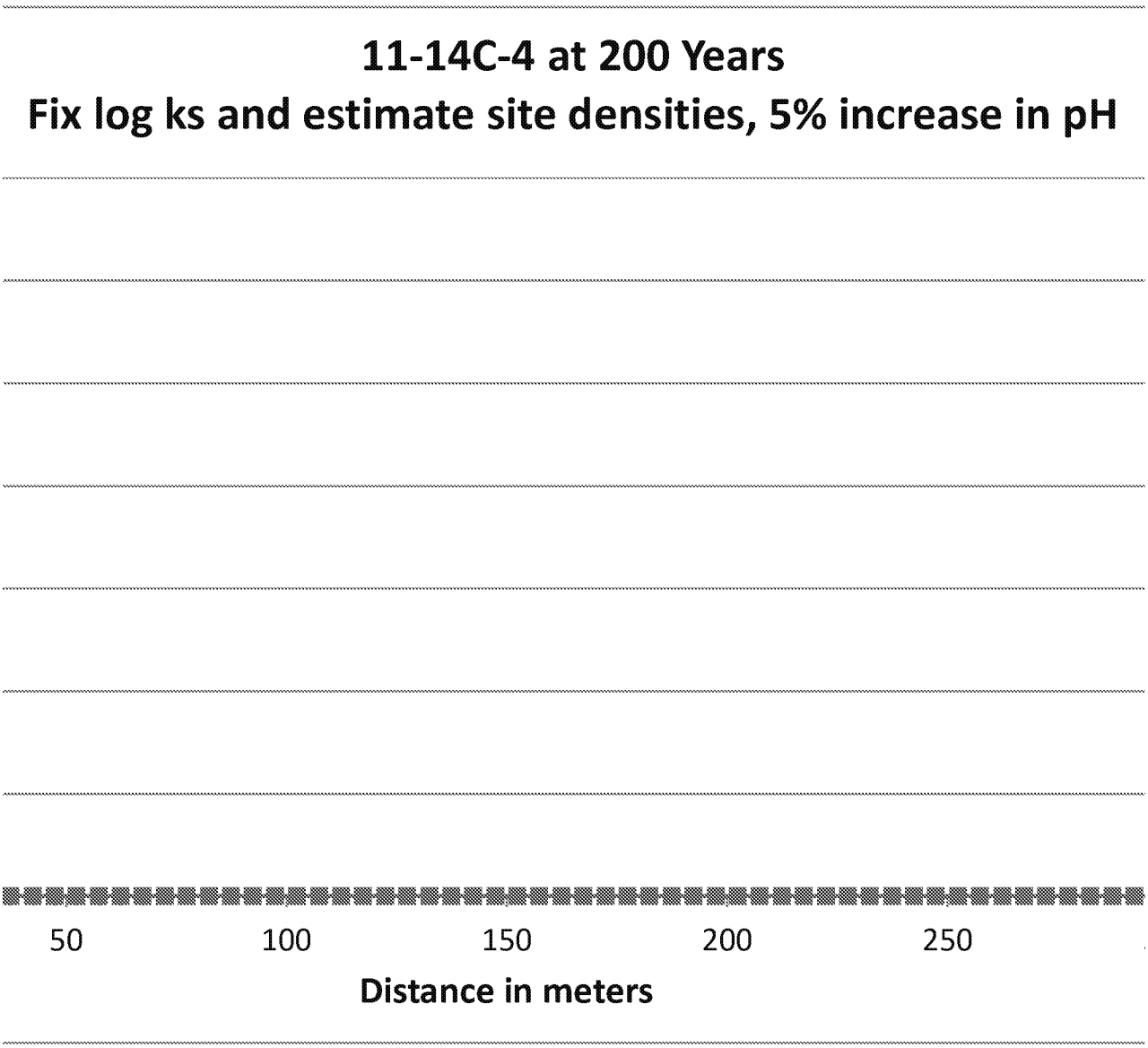

With sorption
No sorption
300

232.5	1.05145E-08	0
237.5	3.46015E-08	0
242.5	1.09133E-07	0
247.5	3.30306E-07	0
252.5	9.60455E-07	0
257.5	2.68603E-06	0
262.5	7.23202E-06	0
267.5	1.87645E-05	0
272.5	4.696E-05	0
277.5	0.00011345	0
282.5	0.000264792	0
287.5	0.000597532	0
292.5	0.001304603	0
297.5	0.002757718	0

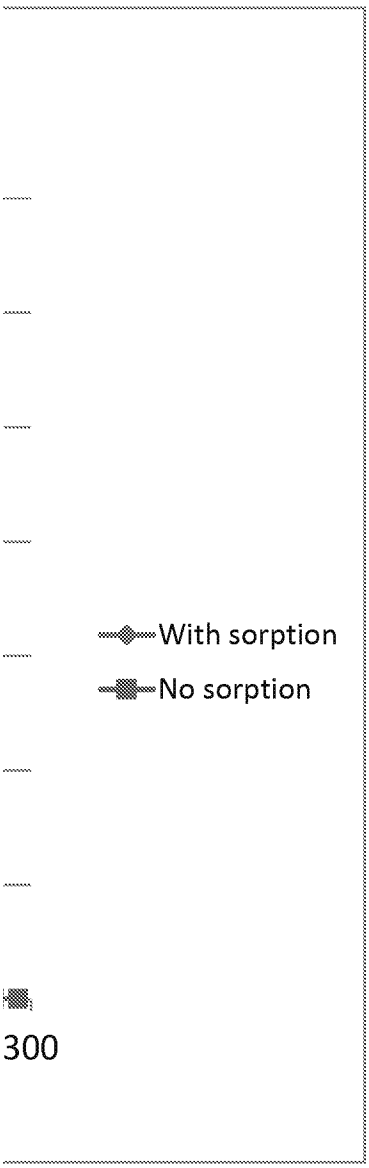
Distance in meters	fix log ks estimate sds	no sorption
2.5	0	0
7.5	0	0
12.5	0	0
17.5	0	0
22.5	0	0
27.5	0	0
32.5	0	0
37.5	0	0
42.5	0	0
47.5	0	0
52.5	0	0
57.5	0	0
62.5	0	0
67.5	0	0
72.5		0
77.5		0
82.5		0
87.5		0
92.5		0
97.5		0
102.5		0
107.5		0
112.5		0
117.5		0
122.5		0
127.5		0
132.5		0
137.5		0
142.5		0
147.5		0
152.5		0
157.5		0
162.5		0
167.5		0
172.5		0
177.5		0
182.5		0
187.5		0
192.5		0
197.5		0
202.5		0
207.5		0
212.5		0
217.5		0
222.5		0
227.5		0



11-14C-4 at 200 Years
Fix log ks and estimate site densities, 5% increase in pH



No sorption
With sorption

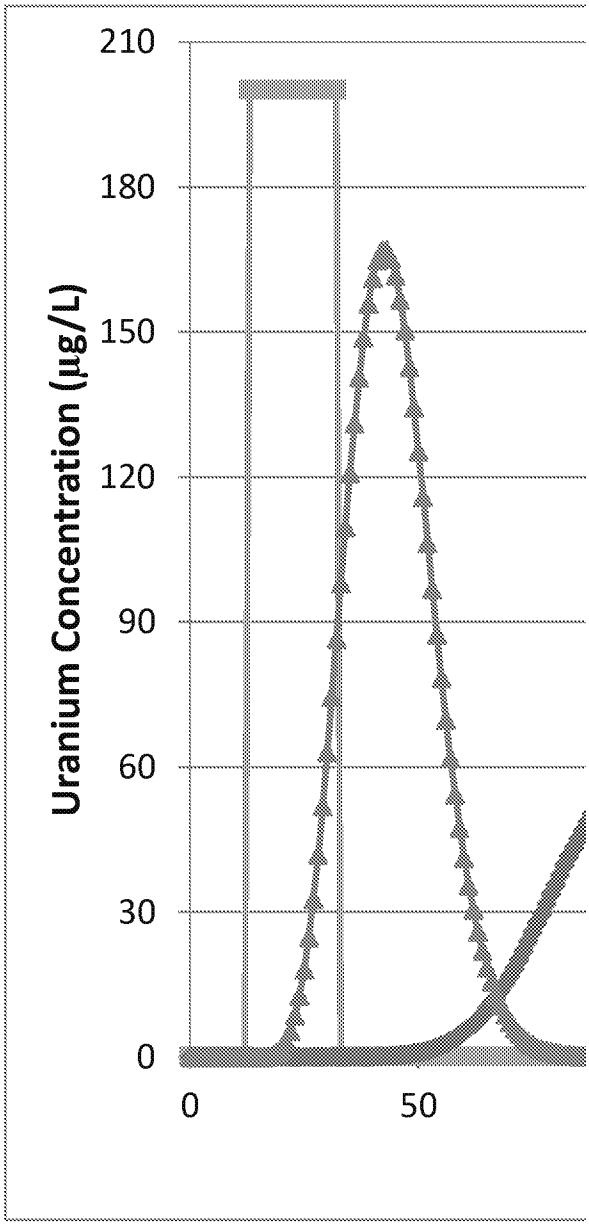

With sorption
No sorption
300

232.5	0
237.5	0
242.5	0
247.5	0
252.5	0
257.5	0
262.5	0
267.5	0
272.5	0
277.5	0
282.5	0
287.5	0
292.5	0
297.5	0

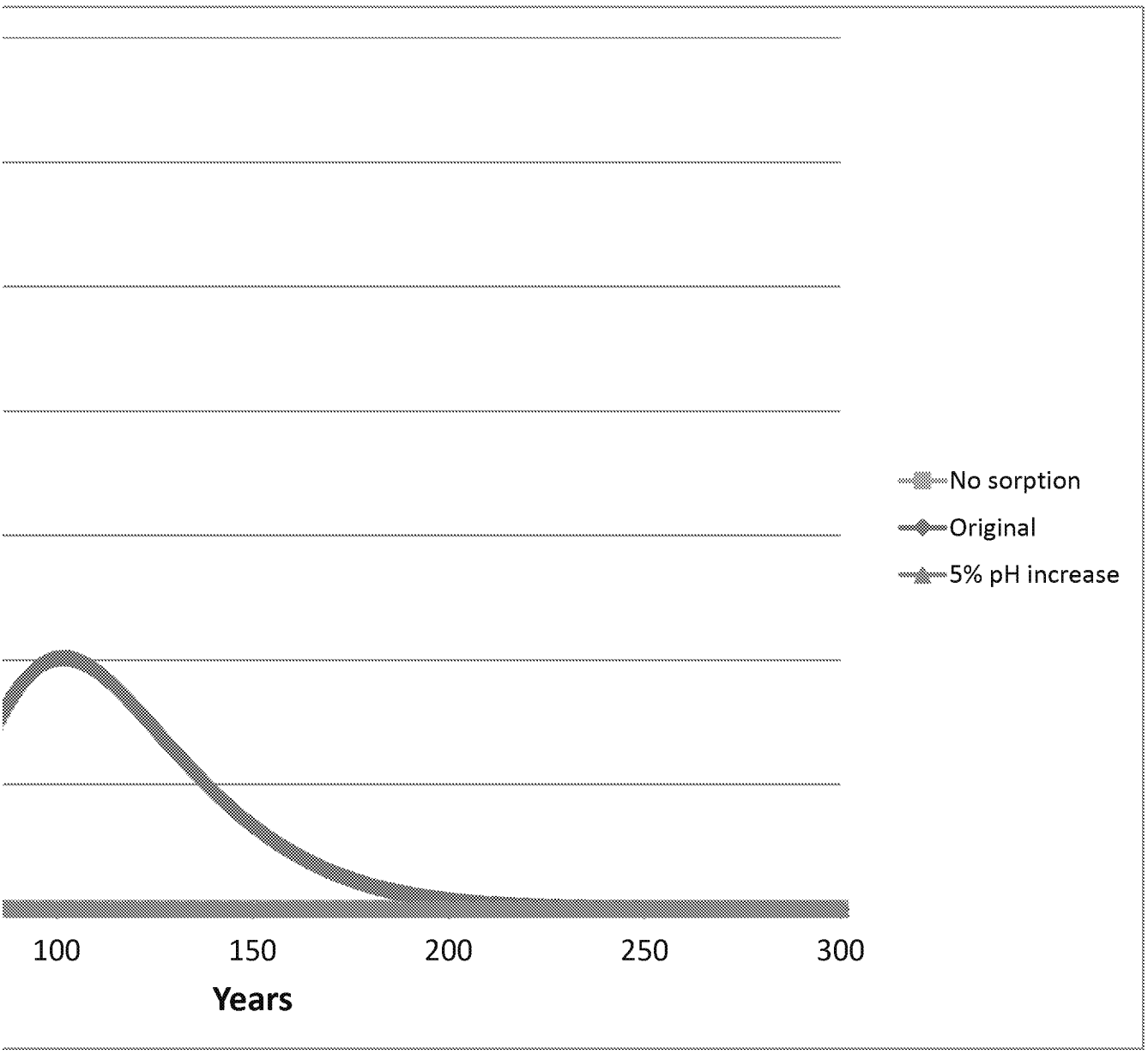
Uranium at cell 162.5 m which are monitoring wells (402 ft. from nearest injection well)

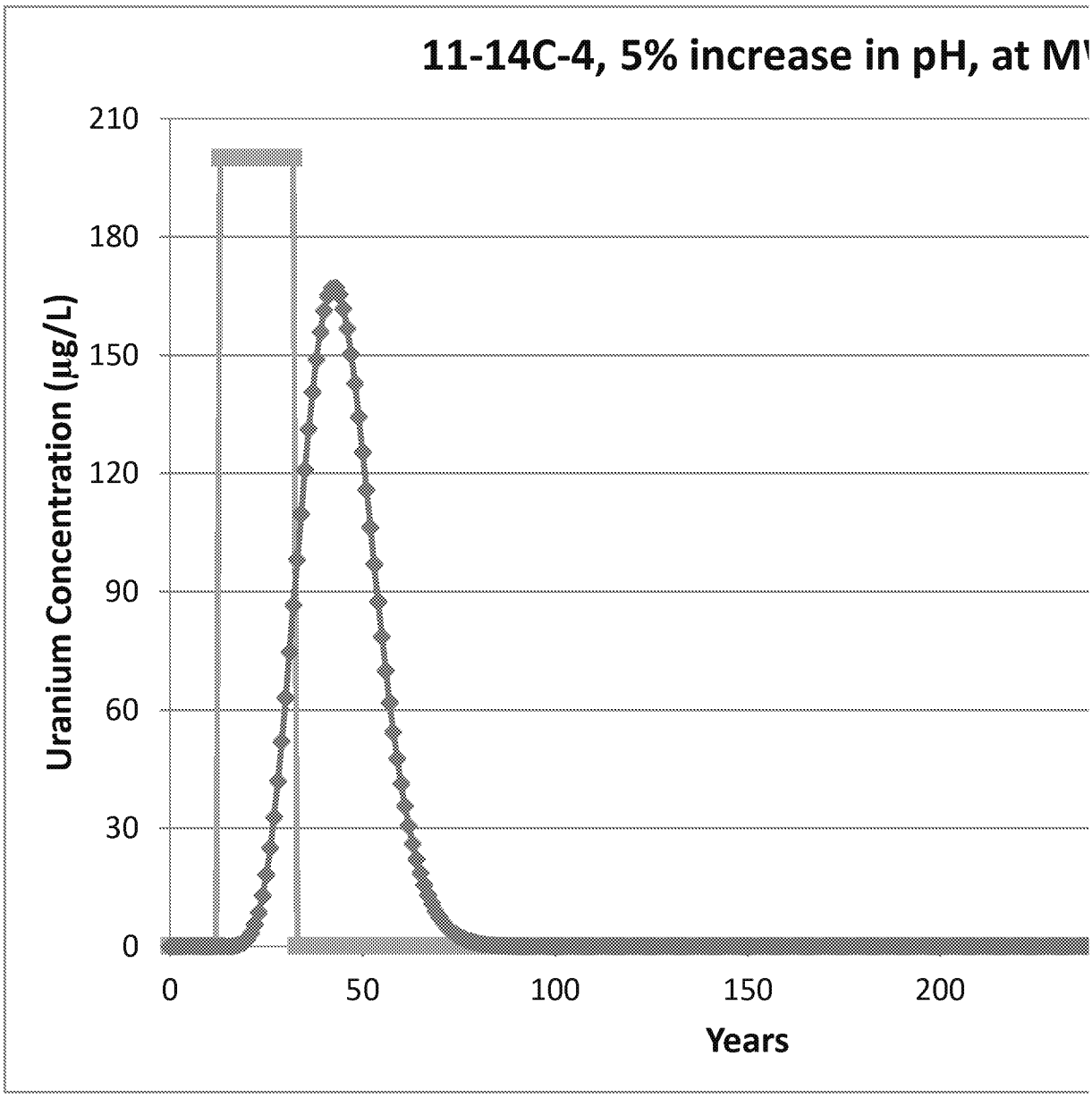
Years	No sorption
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	200
14	200
15	200
16	200
17	200
18	200
19	200
20	200
21	200
22	200
23	200
24	200
25	200
26	200
27	200
28	200
29	200
30	200
31	200
32	200
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	0

With sorption	Original
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0.000397781	1.11E-10
0.003712499	1.40E-09
0.018594378	9.45E-09
0.066349799	4.54E-08
0.189032712	1.74E-07
0.457127768	5.64E-07
0.974453501	1.61E-06
1.878275834	4.15E-06
3.333552818	9.82E-06
5.521389009	2.17E-05
8.622848068	4.49E-05
12.80006643	8.85E-05
18.17706841	0.000166411
24.82281371	0.000300522
32.73882952	0.000523469
41.85329335	0.000882781
52.02264337	0.001445927
63.04075984	0.002306516
74.65462975	0.003591775
86.58440417	0.005471391
98.0592063	0.008135306
109.6754963	0.011906989
120.7992418	0.017131854
131.1967693	0.024261646
140.6483989	0.033855706
148.9439589	0.046598473
155.8833178	0.063318181
161.2840057	0.085006499
164.9947073	0.112838773
166.9109685	0.148194458
166.9886861	0.192677215
165.2518127	0.248134058



No sorption
5% pH increase

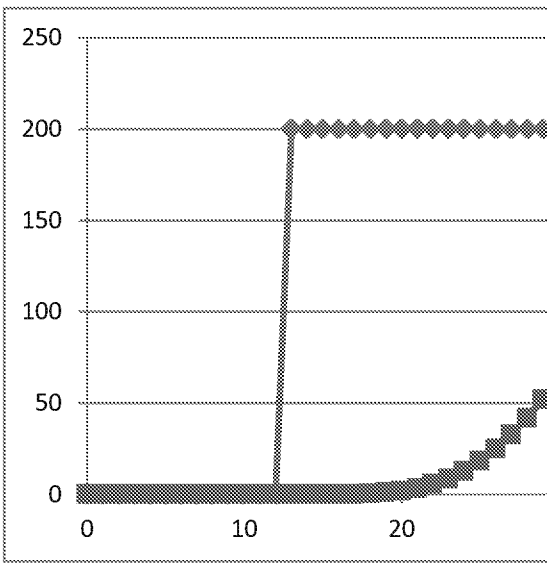

No sorption
Original
5% pH increase
100
150
200
250
300
Years

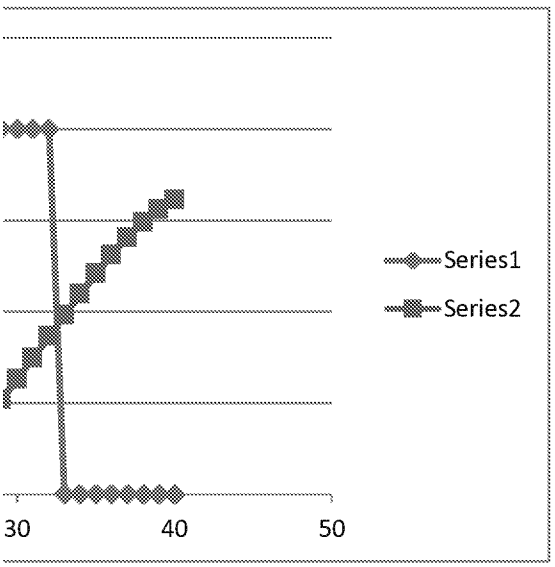

11-14C-4, 5% increase in pH, at M
Uranium Concentration (µg/L)
210
180
150
120
90
60
30
0
0
50
100
150
200
Years

W Ring
No sorption
5% pH increase
250
300

45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	0
85	0
86	0
87	0
88	0
89	0
90	0
91	0

161.7925439	0.316672882
156.7642431	0.400677581
150.3688443	0.502819949
142.8411876	0.626067476
134.4327314	0.773686165
125.3965842	0.949237447
115.975099	1.156568346
106.3905878	1.399794048
96.83917374	1.683272144
87.48745062	2.011567893
78.47143795	2.38941002
69.89727491	2.821636734
61.8431314	3.313131845
54.36189297	3.868751153
47.4842689	4.493239532
41.22206097	5.1911395
35.57140597	5.966692403
30.51586531	6.823733763
26.02928014	7.765584706
22.07834374	8.794941855
18.62486625	9.913768399
15.62772369	11.12318945
13.0444954	12.42339504
10.83280277	13.81355429
8.951368755	15.29174435
7.36082237	16.8548975
6.024275962	18.49876972
4.907704669	20.21793328
3.980158498	22.00579537
3.213836759	23.85464418
2.58405338	25.75572231
2.069119237	27.69932699
1.650164885	29.67493506
1.310923882	31.67134976
1.037493591	33.67686545
0.818087098	35.67944557
0.642786823	37.66690866
0.503307621	39.62711683
0.392774806	41.54816112
0.305520512	43.41853851
0.236900185	45.22731571
0.183129759	46.9642755
0.141143133	48.62004252
0.108468915	50.18618604
0.083124988	51.65529845
0.063529195	53.02104898
0.048424368	54.27821328

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At 197.5 m, or 517 ft. from nearest injection well, about 120 ft. past monitoring well ring

Years	No dispersion
0	0
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2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
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33	200
34	200
35	200
36	200
37	200
38	200
39	200
40	0
41	0
42	0
43	0
44	0

With sorption
0.00
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0.00
0.00
0.01
0.02
0.04
0.08
0.16
0.29
0.52
0.87
1.41
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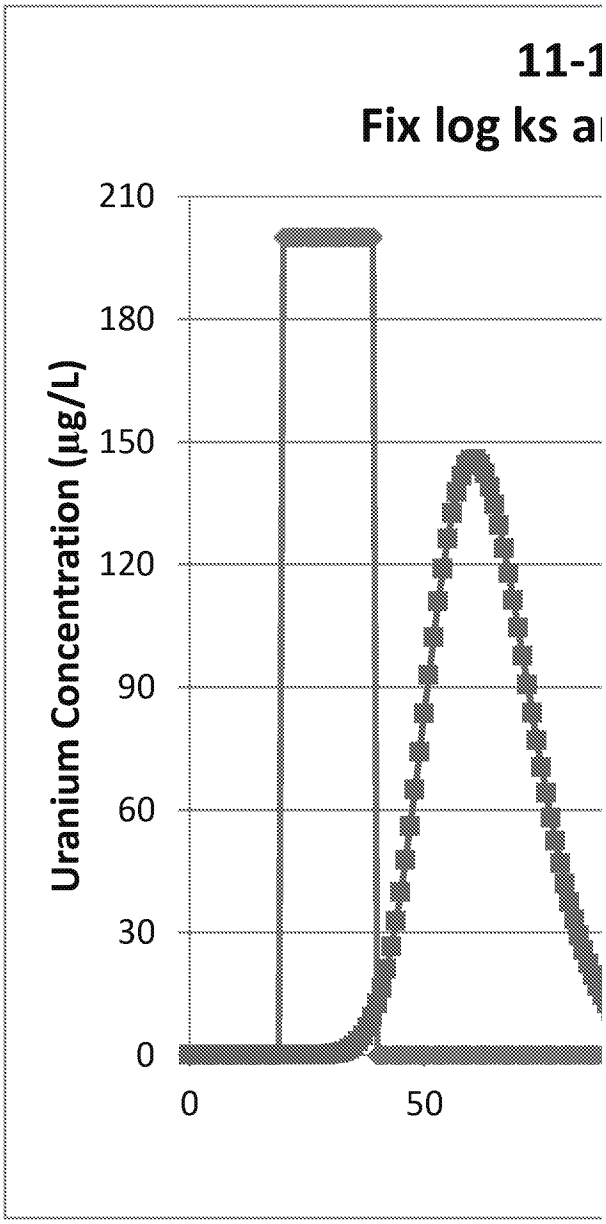
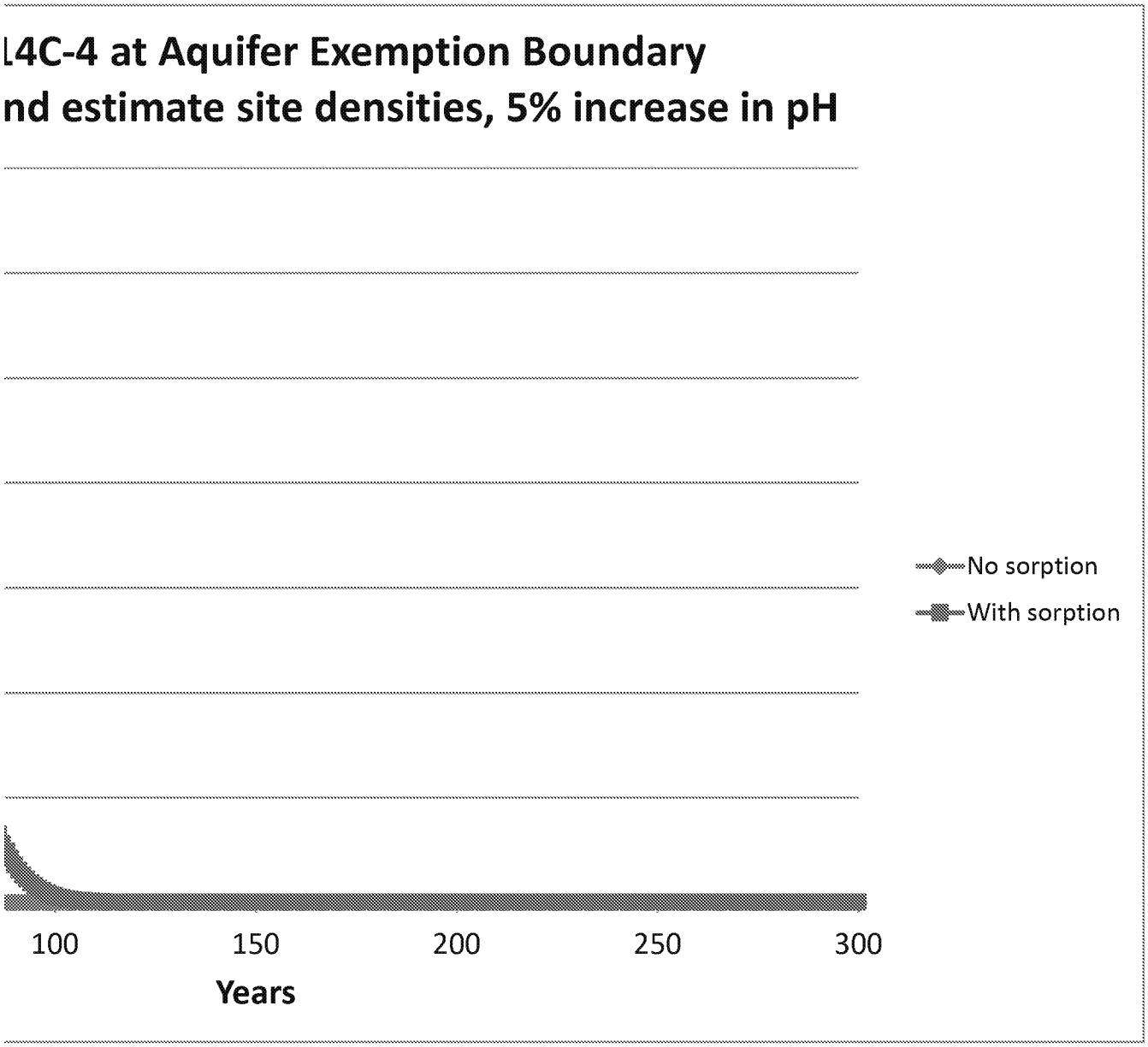


No sorption
With sorption


L4C-4 at Aquifer Exemption Boundary
nd estimate site densities, 5% increase in pH
No sorption
With sorption
100
150
200
250
300
Years

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46	0
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49	0
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51	0
52	0
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