

Contains	Sample	Bottle #	Nitrate (mg/L)	Arsenic (mg/L) HACH Kit Approx.	Arsenic (mg/L) Dr. Ketterer	Arsenic (ug/L) Dr. Ketterer
Arsenic	3/1/17 stock	x	-	0.9-1.5		-
Both	3/1/17 stock	x	42.87, 16.8, 37.13	0.9-1.5		-
NO3-	nitrate stock 3/1/17	i	34.92	-		-
	nitrate stock 3/8/17	ii		-		-
Distilled	Distilled	Blank 1	3.094	-		
	Distilled	Blank 2		-		
	Distilled	Blank 3		-		
Both	both stock 3/7/17	1	33.15	0.9-1.5	1.474	1474
	both stock 3/8/17	2	37.128	-	1.500	1500
As	arsenic stock 3/8/17	3	-	-	1.756	1756
	arsenic stock 3/9/17	4	-	1.5	1.708	1708
Both	Trial 1- 1 min	5	8.84	0.9	0.584	584
	Trial 1- 5 min	6	-2.2	-	0.124	124
	Trial 1-20 min	7	N/A	-	0.038	37.8
	Trial 1- 60 min	8	-1.7	-	0.011	11.4
	Trial 2- 1 min	9	15.47	-	0.625	625
	Trial 2- 5 min	10	-2.8	0.15	0.153	153
	Trial 2-20 min	11	-2.6	-	0.057	57.2
	Trial 2- 60 min	12	N/A	-	0.024	24.4
	Trial 3- 1 min	13	-2.6	-	0.472	472
	Trial 3- 5 min	14	7.072	-	0.158	158
	Trial 3-20 min	15	33.592	0.09	0.071	71.3
	Trial 3- 60 min	16	-2.2	-	0.043	42.7
	Trial 4- 1 min	17	4.862	-	0.693	693
	Trial 4- 5 min	18	-2.7	-	0.296	296
	Trial 4-20 min	19	-1.5	-	0.116	116
	Trial 4- 60 min	20	-1.1	0.03	0.063	63.1
	Trial 5- 1 min	21	10.166	-	0.846	846
	Trial 5- 5 min	22	-2.5	-	0.307	307
	Trial 5-20 min	23	-2.7	-	0.132	132
	Trial 5- 60 min	24	-2.8	-	0.082	82.3
	Trial 6- 1 min **	25	19.01	0.9	0.584	584
	Trial 6 - 5 min	26	15.03	-	0.164	164
	Trial 6-20 min	27	35.8	-	0.045	44.5
	Trial 6- 60 min	28	N/A	-	0.012	11.9
	Trial 7- 1 min	29	11.05	-	0.462	462
	Trial 7- 5 min	30	0.044	0.18	0.180	180
	Trial 7- 20 min	31	0.044	-	0.062	61.8
	Trial 7- 60 min	32	-2.5	-	0.037	36.6
	Trial 8- 1 min	33	26.078	-	0.649	649
	Trial 8- 5 min	34	-0.7	-	0.226	226
	Trial 8-20 min	35	-0.2	0.09	0.086	86.0
	Trial 8- 60 min	36	13.702	-	0.052	52.3
	Trial 9- 1 min	37	23.868	-	0.634	634
	Trial 9- 5 min	38	22.1	-	0.234	234
	Trial 9-20 min	39	-2.3	-	0.111	111
	Trial 9- 60 min	40	11.05	0.025	0.069	68.7

	Trial 10- 5 min	41	11.934	-	0.339	339
	Trial 10- 10 min	42	-2.8	-	0.105	105
	Trial 10-60 min	43	-1.9	-	0.056	55.7
	Trial 10- 120 min	44	5.746	-	0.047	47.1
Arsenic	Trial 11- 1 min	45	-	-	0.768	768
	Trial 11- 5 min	46	-	-	0.240	240
	Trial 11-20 min	47	-	-	0.061	61.2
	Trial 11- 60 min	48	-	0.015	0.026	25.5
	Trial 12- 1 min	49	-	-	0.741	741
	Trial 12- 5 min	50	-	-	0.278	278
	Trial 12-20 min	51	-	0.06	0.090	90.2
	Trial 12- 60 min	52	-	-	0.048	48.3
	Trial 13- 1 min	53	-	-	0.890	890
	Trial 13- 5 min	54	-	0.6	0.388	388
	Trial 13-20 min	55	-	-	0.150	150
	Trial 13- 60 min	56	-	-	0.073	72.7
	Trial 14- 1 min	57	-	1.2	0.992	992
	Trial 14- 5 min	58	-	-	0.461	461
	Trial 14-20 min	59	-	-	0.166	166
	Trial 14- 60 min	60	-	-	0.096	95.6
Trial 15- 1 min	61	-	-	1.127	1127	
Trial 15- 5 min	62	-	-	0.461	461	
Trial 15-20 min	63	-	-	0.181	181	
Trial 15- 60 min	64	-	-	0.107	107	
Nitrate	Trial 16- 1 min	65	24.75	-	-	-
	Trial 16- 5 min	66	-2.2	-	-	-
	Trial 16-20 min	67	-1.3	-	-	-
	Trial 16- 60 min	68	-1.5	-	-	-
	Trial 17- 1 min	69	24.752	-	-	-
	Trial 17- 5 min	70	-1	-	-	-
	Trial 17-20 min	71	-2.1	-	-	-
	Trial 17- 60 min	72	-2.1	-	-	-
	Trial 18- 1 min	73	31.824	-	-	-
	Trial 18- 5 min	74	1.5	-	-	-
	Trial 18-20 min	75	-1.3	-	-	-
	Trial 18- 60 min	76	-1.2	-	-	-
	Trial 19- 1 min	77	26.078	-	-	-
	Trial 19- 5 min	78	-1.2	-	-	-
Trial 19-20 min	79	-2.2	-	-	-	
Trial 19- 60 min	80	-1.9	-	-	-	

Error, under measuring range, assume 0.3 mg/L

Trial 6 ** changed AA

*for nitrate recordings: multiply NO3-N by 4.42

Arsenic dilution 12.5mL soln 37.5mL dist.

Both solution stock needs 350 ml per trial

Arsenic solution stock need 250 mL per trial