

Jennie Duncan

From: Sarah Dvoracek <sarah.dvoracek@evart.org>
Sent: Friday, April 19, 2019 11:23 AM
To: Jennifer Duncan
Cc: mark.wilson@evart.org
Subject: FW: Perchlorate Sampling Results through March 19, 2019
Attachments: 2016 - 2019 Perc.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

For packets. FYI

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From: Foote, Greg <Greg.Foote@arcadis.com>
Sent: Thursday, April 18, 2019 6:59 PM
To: Mark Wilson (mark.wilson@evart.org) <mark.wilson@evart.org>; Patrick Muczynski <patrick.muczynski@evart.org>; Sarah J. Dvoracek (sarah.dvoracek@evart.org) <sarah.dvoracek@evart.org>
Subject: Perchlorate Sampling Results through March 19, 2019

Hello Sarah, Mark, and Patrick-

Please see attached perchlorate sampling results. Overall results are showing a declining trend with the highest concentration detected of 0.52 ug/L in Well 4. Please let me know if you have any questions.

Thanks

-Greg

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Be green, leave it on the screen.

Sample ID	Laboratory Method	Analyze	Matrix	2016													
				Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results		
West Tower	331	Perchlorate	Water	0.13	0.13	0.12	0.11	0.07	0.07	NS	0.14	0.11	0.14	0.13	0.17	0.17	0.32
North Tower	331	Perchlorate	Water	1.4	1.2	1.6	1.4	NS	2.4	2.7	1.4	0.87	0.56	0.53	0.5	0.85	1.1
Well-1	331	Perchlorate	Water	11	11	11	10	10	10	10	NS	8.3	7.3	7.4	8.5	13	14
Well-2	331	Perchlorate	Water	8.2	7.9	8.4	7.9	11	18	19	18	NS	NS	NS	20	22	33
duplicate (Well 2)	331	Perchlorate	Water	7.4	6.1	6.3	7.8	11	15	21	26	28	27	29	24	21	22
Well-3	331	Perchlorate	Water	6.0	6.2	6.1	6.3	6.1	6.3	6.7	7.4	4.6	5.3	6.4	7.3	6.8	6.0
Well-4	331	Perchlorate	Water	0.73	0.66	0.61	0.55	0.66	0.72	0.74	1.1	1.7	1.6	1.6	1.4	1.3	1.9
Hydrant-1	331	Perchlorate	Water	0.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hydrant-2	331	Perchlorate	Water	6.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hydrant-3	331	Perchlorate	Water	4.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hydrant-4	331	Perchlorate	Water	4.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Sample ID	Laboratory Method	Analyze	Matrix	2017													
				Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results		
West Tower	331	Perchlorate	Water	0.31	0.33	0.06	<0.05	0.07	0.47	0.31	0.19	0.14	0.14	0.16	0.16	0.16	0.14
North Tower	331	Perchlorate	Water	0.87	0.75	0.67	0.47	0.44	3.8	3.3	3.1	2.8	2.8	3.1	3	2.6	2.3
Well-1	331	Perchlorate	Water	8	6.9	5.8	5.0	4.4	9	6.2	6.9	1	1.2	0.99	1.7	1.4	1.5
Well-2	331	Perchlorate	Water	22	17	15	14	9.8	9	6.2	6.9	1	1.2	0.99	1.7	1.4	1.5
Well-3	331	Perchlorate	Water	4.1	3.1	2.9	2.7	2.4	2	1.8	1.3	1	1.3	1	1.4	1.2	1.3
Well-4	331	Perchlorate	Water	5.9	5.5	4.9	3.7	3.4	3.1	2.6	2.4	2.1	1.9	1.7	1.8	1.9	1.8
Well-6	331	Perchlorate	Water	0.78	0.33	0.39	0.21	0.21	0.12	0.13	0.07	0.57	0.56	0.28	0.97	0.74	0.63

Sample ID	Laboratory Method	Analyze	Matrix	2017													
				Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results		
West Tower	331	Perchlorate	Water	<0.05	0.06	0.07	0.09	0.12	0.17	0.23	0.23	0.23	0.09	0.10	0.12	0.15	0.16
North Tower	331	Perchlorate	Water	0.20	0.23	0.24	0.22	0.27	0.32	0.41	0.46	0.41	0.31	0.26	0.42	0.32	0.29
Well-1	331	Perchlorate	Water	2	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.1	1.0	0.99	0.87	
Well-2	331	Perchlorate	Water	2	2.9	2.4	1.8	2.2	2.2	2.2	1.8	1.6	1.4	0.98	0.84	0.49	
Well-3	331	Perchlorate	Water	1.9	3.5	2	1.4	2.4	2.7	2	1.8	1.7	1.4	1.1	0.84	0.60	
Well-4	331	Perchlorate	Water	1.6	1.8	1.4	1.5	1.4	1.3	1.2	1.1	0.98	0.97	0.92	0.87		
Well-6	331	Perchlorate	Water	1.5	2.3	2.2	1.2	1.8	2.0	1.5	1.5	1.4	1.1	0.96	0.44	0.23	

DW - Drinking Water
 NS - Not Sampled
 North Tower not sampled (April 27, 2016) due to maintenance
 West Tower not sampled (May 13, 2016) due to maintenance
 Well-1 not sampled (May 23, 2016 and June 1, 2016) due to maintenance
 Well-2 not sampled (June 23, 2016 and July 8, 2016) due to maintenance
 Well-3 not sampled (April 20, 2018) due to maintenance

Sample ID	Laboratory Method	Analyze	Matrix	2018													
				Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results		
West Tower	331	Perchlorate	Water	0.24	0.18	0.36	0.09	0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	0.14	0.13	0.13
North Tower	331	Perchlorate	Water	0.31	0.30	0.32	0.21	0.16	0.11	0.08	0.07	0.08	0.08	0.09	0.09	0.12	0.13
Well-1	331	Perchlorate	Water	0.74	0.67	0.63	0.61	0.60	0.74	0.67	0.62	0.46	0.41	0.40	0.39	0.37	0.34
Well-2	331	Perchlorate	Water	0.53	0.47	0.48	0.42	0.53	0.53	0.62	0.55	0.60	0.41	0.40	0.43	0.51	0.50
Well-3	331	Perchlorate	Water	0.95	0.96	0.96	0.53	0.62	1.4	1.7	1.4	0.80	NS	0.65	0.64	0.67	
Well-4	331	Perchlorate	Water	0.71	0.72	0.86	0.76	0.80	0.76	0.77	0.76	0.73	0.65	0.60	0.57	0.54	
Well-6	331	Perchlorate	Water	0.29	0.27	0.33	0.24	0.28	0.37	0.30	0.41	0.37	0.19	0.18	0.14	0.15	

Sample ID	Laboratory Method	Analyze	Matrix	2019													
				Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results		
West Tower	331	Perchlorate	Water	0.15	0.20	0.26	0.37	0.17	NS	0.22	0.08	0.13	0.07	<0.05	<0.05	<0.05	<0.05
North Tower	331	Perchlorate	Water	0.16	0.29	0.34	0.34	0.40	0.18	0.12	0.11	0.13	0.30	0.10	0.30	0.28	0.28
Well-1	331	Perchlorate	Water	0.36	0.37	NS	NS	0.27	0.30	0.32	0.34	0.29	0.27	0.13	0.27	0.13	
Well-2	331	Perchlorate	Water	0.55	0.50	0.47	0.33	0.44	0.30	0.33	0.34	0.29	0.27	0.13	0.27	0.13	
Well-3	331	Perchlorate	Water	0.75	0.71	0.70	0.65	0.62	0.62	0.62	0.54	0.51	0.42	0.40	0.22	0.42	
Well-4	331	Perchlorate	Water	0.56	0.57	0.62	0.67	0.65	0.66	0.72	0.63	0.58	0.54	0.52	0.54	0.57	
Well-6	331	Perchlorate	Water	0.13	0.12	0.14	0.19	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	

DW - Drinking Water
 NS - Not Sampled
 Well-1 not sampled (August 21, 2016 and September 24, 2018) due to maintenance
 West Tower not sampled (October 10, 2018) due to maintenance