National Aeronautics and Space Administration

Goddard Space Flight Center
Wallops Flight Facility
Wallops Island, VA 23337-5099

June 10, 2019

Reply to Attn of: 250.W

Office of Drinking Water
Attn: Mr. Dixon Tucker
District Engineer
Virginia Department of Health
830 South Hampton Avenue
Norfolk, VA 23510

Subject: May 2019 Water Chlorination and Orthophosphate Reports

Ref: PWSID: 3001500 Main Base, PWSID: 3001535 Mainland/Island, NASA Wallops Flight Facility

In accordance with the Virginia Department of Health Drinking Water Regulations, please find enclosed:

1. May 2019 Chlorination Reports for Main Base and Island Locations (Enclosures 1 and 2)
2. May 2019 Orthophosphate Reports for Main Base and Island Locations (Enclosures 3 and 4)
3. May 2019 Chincoteague Water Readings from Main Base NASA Grid (Enclosure 5)

If you have any questions or comments concerning this report, please contact Mr. Jason Freischlag at (757) 824-2352.

T.J. Meyer
Associate Chief, Medical and Environmental Management Division

5 Enclosures
cc: (w/o encls.)
227/Mr. W. Redmond
250/Mr. R. Hooks

VIRGINIA STATE DEPARTMENT
OF HEALTH
WATER CHLORINATION REPORT

No. of Connections: 206
No. of people served: 1625

Year 2019 Month May
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001500 Mainbase

DATE	Residual Chlorine								Lbs. of solution injected	No. Gal. Water Treated	Comments
	North End Results			Entry Point		South End Results					
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	D-50	0.30	0.36	1.36	1.58	N-162	1.40	1.78	56	131,000	
2	D-50	0.20		1.43		N-162	1.61		40	96,000	
3	D-50	0.21		1.45		N-162	1.57		70	138,000	
4	D-50	0.83		1.43		N-162	1.31		66	113,000	
5	D-50	0.74		1.21		N-162	1.37		56	121,000	
6	D-50	0.62	0.73	1.16	1.40	N-162	1.07	1.19	33	87,000	
7	D-50	0.41		0.94		N-162	1.00		67	138,000	
8	D-50	0.43	0.42	1.10	1.27	N-162	0.86	1.01	49	118,000	
9	D-50	0.43		1.09		N-162	0.89		72	135,000	
10	D-50	0.65		1.23		N-162	0.81		66	136,000	
11	D-50	0.15		1.22		N-162	0.70		54	128,000	
12	D-50	0.10		1.35		N-162	0.96		84	207,000	
13	D-50	0.20	0.23	1.39	1.56	N-162	0.58	0.74	62	102,000	
14	D-50	0.09		1.61		N-162	1.08		68	138,000	
15	D-50	0.19	0.22	1.48		N-162	0.99	1.15	72	200,000	
16	D-50	0.15		1.21		N-162	0.90		69	190,000	
17	D-50	0.39		0.80		N-162	0.78		71	142,000	
18	D-50	0.39		0.98		N-162	0.74		70	164,000	
19	D-50	0.45		1.10		N-162	0.65		98	187,000	
20	D-50	0.45	0.62	1.24	1.58	N-162	0.64	0.62	62	101,000	
21	D-50	0.38		1.25		N-162	0.46		64	147,000	
22	D-50	0.37		1.83		N-162	0.33		123	215,000	
23	D-50	0.33		1.98		N-162	0.54		108	211,000	
24	D-50	0.37		>2.20		N-162	0.39		121	188,000	
25	D-50	0.29		2.10		N-162	0.65		110	206,000	
26	D-50	0.54		>2.20		N-162	0.90		148	186,000	
27	D-50	0.57	0.67	2.04	>2.20	N-162	0.84	1.00	40	55,000	
28	D-50	0.69		>2.20		N-162	0.72		142	132,000	
29	D-50	0.63		1.18		N-162	0.61		1	147,000	
30	D-50	1.80		1.28		N-162	0.67		88	180,000	
31	D-50	0.95		0.67		N-162	0.75		110	162,000	
Totals		14.30	3.25	37.11	7.39		26.77	7.49	2,340	4,601,000	
Min		0.09	0.22	0.67	1.27		0.33	0.62	1	55,000	
Max		1.80	0.73	2.10	1.58		1.61	1.78	148	215,000	
Ave		0.46	0.46	1.33	1.48		0.86	1.07	75	148,419	

Signed: Robert Witt
Printed Name: Robert Witt

VIRGINIA STATE DEPARTMENT
OF HEALTH
WATER CHLORINATION REPORT

No. of Connections: 38
No. of people served: 400

Year 2019 Month May
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001535 Mainland(Island)

DATE	Residual Chlorine								Lbs. of solution injected	No. Gal. Water Treated	Comment
	North End Results			Entry Point		South End Results					
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	W 71	0.90	1.15	2.03	2.14	Y 61	1.21	1.30	39	61,850	
2	W 71	1.29		2.13		Y 61	1.22		12	19,943	
3	W 71	1.19		1.72		Y 61	1.35		14	29,302	
4	W 71			1.42		Y 61			14	25,999	
5	W 71	1.31		1.63		Y 61	1.15		26	28,613	
6	W 71	1.11	1.07	1.77	1.88	Y 61	1.20	1.19	16	29,241	
7	W 71	1.01		1.66		Y 61	0.98		2	12,167	pumps running
8	W 71	1.07	0.92	1.45	1.67	Y 61	0.89	1.11	16	25,968	
9	W 71	0.98		1.82		Y 61	0.97		12	28,834	
10	W 71	1.02		2.00		Y 61	1.09		16	23,437	
11	W 71	1.02		1.75		Y 61	1.15		14	24,057	
12	W 71	0.96		1.38		Y 61	1.10		8	28,113	
13	W 71	1.03	1.18	1.55	1.74	Y 61	1.05	1.20	16	19,749	
14	W 71	0.99		1.65		Y 61	1.08		6	27,953	
15	W 71	1.12	1.18	1.67	1.80	Y 61	1.09	1.14	14	28,050	
16	W 71	1.04		1.85		Y 61	1.12		8	20,160	
17	W 71	1.06		1.77		Y 61	1.14		16	28,948	
18	W 71	0.99		1.57		Y 61	0.79		16	20,016	
19	W 71	0.94		1.53		Y 61	1.33		18	38,694	
20	W 71	1.03	1.23	1.69	1.95	Y 61	1.00	1.14	13	18,546	
21	W 71	1.04		1.81		Y 61	0.99		11	29,221	
22	W 71	1.07		1.78		Y 61	0.86		16	28,937	
23	W 71	0.96		2.17		Y 61	1.39		72	105,448	MARS usage
24	W 71	1.81		1.48		Y 61	1.37		26	101,855	MARS usage
25	W 71	1.92		1.73		Y 61	1.46		14	28,862	
26	W 71	1.77		1.27		Y 61	1.53		7	17,506	
27	W 71	1.24		>2.20		Y 61	1.22		9	15,284	
28	W 71	0.93		1.40		Y 61	0.98		15	28,427	
29	W 71	0.74		1.49		Y 61	0.69		21	30,121	
30	W 71	0.84		1.22		Y 61	0.69		12	33,448	
31	W 71	0.66		3.80		Y 61	0.63		108	38,493	
Totals		33.04	6.73	52.19	11.18		32.72	7.08	607	997,242	
Min		0.66	0.92	1.22	1.67		0.63	1.11	2	12,167	
Max		1.92	1.23	3.80	2.14		1.53	1.30	108	105,448	
Ave		1.10	1.12	1.74	1.86		1.09	1.18	20	32,169	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT OF HEALTH ORTHOPHOSPHATE REPORT

No. of Connections: 206
No. of people served: 1625

Year 2019 Month May
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001500 Mainbase

DATE	Zinc Orthophosphate								Lbs. of solution injected	No. Gal. Water Treated	Comments
	North End Results			Entry Point		South End Results					
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	D-50		2.44			N-162		2.20	0	131,000	
2	D-50					N-162			6	96,000	
3	D-50		2.24			N-162		2.31	10	138,000	
4	D-50					N-162			8	113,000	
5	D-50					N-162			10	121,000	
6	D-50		2.82			N-162		2.54	8	87,000	
7	D-50					N-162			4	138,000	
8	D-50		2.37			N-162		2.64	0	118,000	
9	D-50					N-162			1	135,000	
10	D-50		1.96			N-162		2.47	0	136,000	
11	D-50					N-162			3	128,000	
12	D-50					N-162			12	207,000	
13	D-50		2.68			N-162		1.72	6	102,000	
14	D-50					N-162			6	138,000	
15	D-50					N-162			14	200,000	
16	D-50					N-162			9	190,000	
17	D-50		2.46			N-162		2.39	9	142,000	
18	D-50					N-162			12	164,000	
19	D-50					N-162			12	187,000	
20	D-50		2.24			N-162		2.13	6	101,000	
21	D-50					N-162			10	147,000	
22	D-50		2.99			N-162		2.03	14	215,000	
23	D-50					N-162			15	211,000	
24	D-50		2.17			N-162		2.34	15	188,000	
25	D-50					N-162			12	206,000	
26	D-50					N-162			12	186,000	
27	D-50		2.42			N-162		2.41	4	55,000	
28	D-50					N-162			10	132,000	
29	D-50		2.13			N-162		2.41	10	147,000	
30	D-50					N-162			12	180,000	
31	D-50		2.31			N-162		2.26	10	162,000	
Totals			31.23					29.85	260	4,601,000	
Min			1.96					1.72	0	55,000	
Max			2.99					2.64	15	215,000	
Ave			2.40					2.30	8	148,419	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT OF HEALTH ORTHOPHOSPHATE REPORT

No. of Connections: 38
No. of people served: 400

Year 2019 Month May
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001535 Mainland(Island)

	Zinc Orthophosphate										
DATE	North End Results			Entry Point		South End Results			Lbs. of solution injected	No. Gal. Water Treated	Comments
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	W-71		2.67			Y-61		3.05	7	61,856	
2	W-71					Y-61			0	19,443	
3	W-71		2.86			Y-61		2.97	2	29,302	
4	W-71					Y-61			2	25,999	
5	W-71					Y-61			3	28,613	
6	W-71		2.48			Y-61		3.02	3	29,241	
7	W-71					Y-61			3	12,167	
8	W-71		2.91			Y-61		2.76	1	25,968	
9	W-71					Y-61			3	28,834	
10	W-71		>5.0			Y-61		3.04	1	23,437	
11	W-71					Y-61			2	24,057	
12	W-71					Y-61			4	28,113	
13	W-71		3.05			Y-61		2.79	2	19,749	
14	W-71					Y-61			3	27,953	
15	W-71		4.05			Y-61		3.79	3	28,050	
16	W-71					Y-61			0	20,160	
17	W-71		3.62			Y-61		3.27	0	28,978	
18	W-71					Y-61			16	20,016	
19	W-71					Y-61			4	38,694	
20	W-71		2.42			Y-61		1.87	1	18,546	
21	W-71					Y-61			3	29,221	
22	W-71		2.74			Y-61		3.19	4	28,937	
23	W-71					Y-61			10	105,448	MARS usage
24	W-71		3.21			Y-61		3.02	10	101,859	MARS usage
25	W-71					Y-61			1	28,862	
26	W-71					Y-61			3	17,506	
27	W-71		2.97			Y-61		3.03	2	15,284	
28	W-71					Y-61			3	28,427	
29	W-71		2.59			Y-61		2.72	3	30,121	
30	W-71					Y-61			3	33,448	
31	W-71		2.90			Y-61		3.11	3	38,493	
Totals			38.47					41.63	105	996,782	
Min			2.42					1.87	0	12,167	
Max			4.05					3.79	16	105,448	
Ave			2.96					2.97	3	32,154	

Signed: Robert Wilt
Printed Name: Robert Wilt

May 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
May 2nd	64,969,000	472,000
May 9th	65,432,000	463,000
May 16th	66,069,000	637,000
May 23rd	66,720,000	651,000
May 30th	67,274,000	554,000
May total		2,777,000