National Aeronautics and Space Administration
Goddard Space Flight Center
Wallops Flight Facility
Wallops Island, VA 23337-5099

February 7, 2019

eply 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: January 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. Jan 2019 Chlorination Reports for Main Base and Island Locations (Enclosures 1 and 2)
2. Jan 2019 Orthophosphate Reports for Main Base and Island Locations (Enclosures 3 and 4)
3. Jan 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 January
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	0.41		1.88		N-162	1.52		62	132,000	
2	D-50	0.83		1.65		N-162	1.47		54	111,000	
3	D-50	0.79		1.70		N-162	1.55		68	128,000	
4	D-50	0.64		1.79		N-162	1.51		56	103,000	
5	D-50	0.63		1.67		N-162	1.49		62	134,000	
6	D-50	0.71		1.77		N-162	1.53		90	158,000	
7	D-50	0.55	0.59	1.64	2.12	N-162	1.47	1.53	24	70,000	
8	D-50	0.54		1.65		N-162	1.61		60	143,000	
9	D-50	1.01		1.65		N-162	1.54		54	108,000	
10	D-50	0.83		1.63		N-162	1.36		66	127,000	
11	D-50	0.39		1.69		N-162	1.29		54	109,000	
12	D-50	0.37		1.71		N-162	1.41		58	122,000	
13	D-50	0.52		0.66		N-162	1.29		84	163,000	
14	D-50			1.58	2.07	N-162			46	68,000	
15	D-50	0.39		1.75		F-16	0.55		58	134,000	
16	D-50			1.75		F-16			81	133,000	
17	D-50	0.43		2.16		N-162	1.40		81	132,000	
18	D-50	0.72		2.04		N-162	1.18		48	117,000	
19	D-50	0.66		1.95		N-162	1.29		50	107,000	
20	D-50	0.54		1.76		N-162	1.10		68	157,000	
21	D-50	0.56	0.91	1.77	1.85	N-162	1.74	2.20	58	128,000	
22	D-50	0.54		1.66		N-162	1.66		34	71,000	
23	D-50	0.66		1.42		N-162	1.55		55	138,000	
24	D-50	0.97		1.69		N-162	1.38		113	144,000	
25	D-50	0.91		1.70		N-162	1.35		2	101,000	
26	D-50	72.00		1.64		N-162	1.28		34	93,000	
27	D-50	0.69		0.61		N-162	0.79		60	161,000	
28	D-50	0.37	0.56	1.02	1.05	N-162	1.40	1.55	4	76,000	
29	D-50	0.33		0.97		N-162	1.11		62	137,000	
30	D-50	0.62		0.90		N-162	0.79		60	130,000	
31	D-50	0.59		0.97		N-162	0.83		28	121,000	
Totals		89.20	2.06	48.43	7.09		38.44	5.28	1734	3756000	
Min		0.33	0.56	0.61	1.05		0.55	1.53	2	68000	
Max		72.00	0.91	2.16	2.12		1.74	2.20	113	163000	
Ave		3.08	0.69	1.56	1.77		1.33	1.76	56	121161	

Signed: G Hall
Printed Name: George Hall

VIRGINIA STATE DEPARTMENT
OF HEALTH
WATER CHLORINATION REPORT

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

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

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	W 71	1.05		0.87		Y 61	1.21		0	11,186	
2	W 71	1.05		0.94		Y 61	1.08		16	21,609	
3	W 71	0.91		0.77		Y 61	0.84		7	20,710	
4	W 71	0.63		1.12		Y 61	0.69		9	26,858	
5	W 71	1.25		0.45		Y 61	0.51		18	46,394	filling tower
6	W 71	0.63		0.45		Y 61	0.70		14	21,851	
7	W 71	0.93	1.10	1.01	1.09	Y 61	0.72	0.75	8	21,833	
8	W 71	0.72		1.11		Y 61	0.59		11	18,179	
9	W 71	0.52		1.26		Y 61	0.45		13	22,117	
10	W 71	0.83		0.45		Y 61	0.83		2	29,061	
11	W 71	0.51		0.27		Y 61	0.58		12	21,596	
12	W 71	0.33		0.97		Y 61	0.49		10	20,146	
13	W 71	0.61		2.04		Y 61	0.52		8	22,469	
14	W 71	0.79	0.90	>2.20	>2.20	Y 61	0.55	0.75	34	18,666	
15	W 71	0.94		1.79		Y 61	1.11		36	116,987	metasys issue
16	W 71			0.69		Y 61			12	0	
17	W 71	0.81		1.73		Y 61	1.17		20	27,408	
18	W 71	0.98		2.20		Y 61	1.30		0	17,940	
19	W 71	1.21		2.11		Y 61	1.33		10	21,104	
20	W 71	1.53		1.61		Y 61	1.32		20	53,624	
21	W 71	1.58	1.97	1.12	1.34	Y 61	1.66		24	75,702	metasys issue
22	W 71	1.57		0.76		Y 61	1.77		6	3,092	
23	W 71	1.19	1.43	2.09	1.84	Y 61	1.17		20	28,094	
24	W 71	1.13		1.73		Y 61	1.20		10	9,693	
25	W 71	1.17		2.20		Y 61	1.27		8	26,579	
26	W 71	1.17		2.12		Y 61	1.25		10	18,514	
27	W 71	1.64		0.75		Y 61	1.39		30	27,726	
28	W 71	1.61	1.92	>2.20	>2.20	Y 61	1.56	1.86	30	28,448	
29	W 71	1.56		2.20		Y 61	1.58		8	9,517	
30	W 71	1.64		>2.20		Y 61	1.78		3	26,625	
31	W 71	1.64		>2.20		Y 61	1.94		23	27,697	
Totals		32.13	7.32	34.81	4.27		32.56	3.36	432	841425	
Min		0.33	0.90	0.27	1.09		0.45	0.75	0	0	
Max		1.64	1.97	2.20	1.84		1.94	1.86	36	116987	
Ave		1.07	1.46	1.29	1.42		1.09	1.12	14	27143	

Signed: G Hall
Printed Name: Gerry Hall

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

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

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

	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	D-50					N-162			6	132,000	
2	D-50		2.26			N-162		2.56	9	111,000	
3	D-50					N-162			9	128,000	
4	D-50		2.51			N-162		2.56	10	103,000	
5	D-50					N-162			10	134,000	
6	D-50					N-162			12	158,000	
7	D-50		2.36			N-162		2.61	7	70,000	
8	D-50					N-162			12	143,000	
9	D-50		2.68			N-162		2.63	10	108,000	
10	D-50					N-162			12	127,000	
11	D-50		>5.0			N-162		2.56	8	109,000	
12	D-50					N-162			10	122,000	
13	D-50					N-162			16	163,000	
14	D-50					N-162			8	68,000	
15	D-50					N-162			10	134,000	
16	D-50					N-162			13	133,000	
17	D-50					N-162			13	132,000	
18	D-50		2.58			N-162		2.76	10	117,000	
19	D-50					N-162			8	107,000	
20	D-50					N-162			16	157,000	
21	D-50		2.44			N-162		3.09	8	128,000	
22	D-50					N-162			8	71,000	
23	D-50		2.63			N-162		3.22	13	138,000	
24	D-50					N-162			13	144,000	
25	D-50		2.41			N-162		3.27	10	101,000	
26	D-50					N-162			6	93,000	
27	D-50					N-162			20	161,000	
28	D-50		3.01			N-162		3.46	2	76,000	
29	D-50					N-162			12	137,000	
30	D-50		2.66			N-162		3.29	10	130,000	
31	D-50					N-162			11	121,000	
Totals		0.00	25.54				0.00	32.01	322.00	3756000	
Min		0.00	2.26				0.00	2.56	2.00	68000	
Max		0.00	3.01				0.00	3.46	20.00	163000	
Ave		#DIV/0!	2.55				#DIV/0!	2.91	10.39	121161	

Signed: G Hall
Printed Name: George Hall

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

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	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					Y-61			0	11,186	
2	W-71		2.48			Y-61		2.08	0	21,609	
3	W-71					Y-61			1	20,710	
4	W-71		2.23			Y-61		2.15	3	26,858	
5	W-71					Y-61			4	46,394	
6	W-71					Y-61			4	21,851	
7	W-71		2.35			Y-61		2.17	1	21,833	
8	W-71					Y-61			1	18,179	
9	W-71		2.73			Y-61		2.21	2	22,117	
10	W-71					Y-61			0	29,061	
11	W-71					Y-61			0	21,596	
12	W-71					Y-61			1	20,146	
13	W-71					Y-61			5	22,469	
14	W-71		1.56			Y-61		1.78	4	18,666	
15	W-71					Y-61			15	116,987	
16	W-71					Y-61			0	0	
17	W-71					Y-61			2	27,408	
18	W-71		1.77			Y-61		1.81	3	17,940	
19	W-71					Y-61			2	21,104	
20	W-71					Y-61			0	53,624	
21	W-71		1.11			Y-61		2.09	1	75,702	
22	W-71					Y-61			0	3,092	
23	W-71		2.96			Y-61		0.76	3	28,094	
24	W-71					Y-61			1	9,693	
25	W-71		2.63			Y-61		2.11	3	26,579	
26	W-71					Y-61			2	18,514	
27	W-71					Y-61			2	27,726	
28	W-71		3.36			Y-61		3.13	4	28,448	
29	W-71					Y-61			2	9,517	
30	W-71		3.12			Y-61		2.73	3	26,625	
31	W-71					Y-61			3	27,697	
Totals		0.00	26.30				0.00	23.02	72.00	841425	
Min		0.00	1.11				0.00	0.76	0.00	0	
Max		0.00	3.36				0.00	3.13	15.00	116987	
Ave		#DIV/0!	2.39				#DIV/0!		2.32	27143	

Signed: G Hall
Printed Name: George Hall

January 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
January 4th	56,656,000	494,000
January 11th	57,177,000	521,000
January 18th	57,753,000	576,000
January 25th	58,199,000	446,000
January 31st	58,682,000	483,000
January total		**2,520,000**