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

September 10, 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: August 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. August 2019 Chlorination Reports for Main Base and Island Locations (Enclosures 1 and 2)
2. August 2019 Orthophosphate Reports for Main Base and Island Locations (Enclosures 3 and 4)
3. August 2019 Chincoteague Water Readings from Main Base NASA Grid (Enclosure 5)

If you have any questions or comments concerning this report, please contact Mr. Owen Hooks at (757) 824-1941.

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 August
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	0.43		1.63		N-162	1.16		134	234,000	
2	D-50	0.40		1.69		N-162	0.99		154	237,000	
3	D-50	0.29		2.13		N-162	0.53		152	178,000	
4	D-50	1.00		1.43		N-162	1.28		114	216,000	
5	D-50	1.22	1.30	1.90	2.20	N-162	1.37	1.35	158	193,000	
6	D-50	1.41		1.96		N-162	1.29		146	282,000	
7	D-50	1.70		1.76		N-162	1.64		121	214,000	
8	D-50	1.43		1.46		N-162	1.56		110	246,000	
9	D-50	1.10		1.14		N-162	0.88		168	205,000	
10	D-50	0.92		0.77		N-162	0.87		118	234,000	
11	D-50	0.89		1.07		N-162	0.87		132	221,000	
12	D-50	0.76	0.69	1.23	1.17	N-162	0.82	0.78	130	188,000	
13	D-50	1.09		1.32		N-162	0.76		140	180,000	
14	D-50	0.66		1.41		N-162	0.84		169	252,000	
15	D-50	0.19		1.38		N-162	0.81		139	236,000	
16	D-50	0.09		1.06		N-162	0.56		148	235,000	
17	D-50	0.73		1.43		N-162	0.99		154	207,000	
18	D-50	0.96		1.39		N-162	1.04		198	292,000	
19	D-50	0.18	0.23	1.35	1.46	N-162	0.94	1.15	78	140,000	
20	D-50	0.04		1.24		N-162	0.93		188	272,000	
21	D-50	0.01		1.28		N-162	0.88		165	224,000	
22	D-50	0.97		0.48		N-162	0.80		55	207,000	Cl_2 Pump Tripped
23	D-50	0.17		0.86		N-162	0.91		132	209,000	
24	D-50	0.17		1.36		N-162	0.31		152	206,000	
25	D-50	0.06		1.53		N-162	0.20		112	214,000	
26	D-50	0.01	0.01	1.61	2.05	N-162	0.39	0.42	150	219,000	
27	D-50	0.05		1.90		N-162	0.43		134	210,000	
28	D-50	0.00		1.86		N-162	0.21		130	261,000	
29	D-50	0.51		1.49		N-162	0.35		170	256,000	
30	D-50	0.07		1.38		N-162	1.52		120	205,000	
31	D-50	0.61		1.44		N-162	1.14		136	212,000	
Totals		18.12	2.23	43.94	6.88		27.27	3.70	4,307	6,885,000	
Min		0.00	0.01	0.48	1.17		0.20	0.42	55	140,000	
Max		1.70	1.30	2.13	2.20		1.64	1.35	198	292,000	
Ave		0.58	0.56	1.42	1.72		0.88	0.93	139	222,097	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT OF HEALTH
WATER CHLORINATION REPORT

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

Year 2019 Month August
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	0.13		0.98		Y 61	0.20		24	57,303	
2	W 71	0.00		0.95		Y 61	0.17		26	32,614	
3	W 71	0.23		1.29		Y 61	0.18		28	34,877	
4	W 71	0.28		1.06		Y 61	0.25		26	34,221	
5	W 71	0.19	0.20	1.22	1.16	Y 61	0.26	0.21	20	30,137	
6	W 71	0.36		1.91		Y 61	0.35		24	47,163	
7	W 71	0.15		1.82		Y 61	0.53		26	40,690	
8	W 71	0.23		1.75		Y 61	0.47		26	42,200	
9	W 71	0.73		1.76		Y 61			42	37,004	Road Closed
10	W 71	0.54		0.35		Y 61	0.44		8	29,004	
11	W 71	0.20		0.50		Y 61	0.14		26	37,998	
12	W 71	0.49	0.50	1.25	1.35	Y 61	0.60	0.60	18	28,430	
13	W 71	0.09		1.77		Y 61	0.32		48	38,709	
14	W 71	0.46		>2.20		Y 61	0.48		30	54,389	
15	W 71	0.76		2.04		Y 61	0.86		20	38,457	
16	W 71	0.87		2.15		Y 61	0.10		38	39,963	
17	W 71	0.82		2.16		Y 61	0.81		8	36,613	
18	W 71	0.79		1.92		Y 61	0.84		22	39,582	
19	W 71	1.00	0.70	2.02	>2.20	Y 61	0.94	0.67	26	41,124	
20	W 71	0.97		1.67		Y 61	0.98		16	30,007	
21	W 71	0.97		1.52		Y 61	0.82		28	40,789	
22	W 71	0.78		0.93		Y 61	0.79		23	30,498	Cl_2 pump leak
23	W 71	0.59		0.95		Y 61	0.47		25	40,004	
24	W 71	0.50		1.32		Y 61	0.30		38	29,803	
25	W 71	0.58		2.19		Y 61	0.58		18	42,986	
26	W 71	0.41	0.47	>2.20	>2.20	Y 61	0.73	1.03	10	25,731	
27	W 71	0.71		>2.20		Y 61	0.77		18	33,727	
28	W 71	0.98		1.71		Y 61	1.11		14	37,437	
29	W 71	1.13		1.64		Y 61	1.07		20	40,673	
30	W 71	0.83		1.53		Y 61	0.83		8	39,752	
31	W 71	0.84		1.38		Y 61	0.81		12	29,797	
Totals		17.61	1.87	41.74	2.51		17.20	2.51	716	1,161,682	
Min		0.00	0.20	0.35	1.16		0.10	0.21	8	25,731	
Max		1.13	0.70	2.19	1.35		1.11	1.03	48	57,303	
Ave		0.57	0.47	1.49	1.26		0.57	0.63	23	37,474	

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VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

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

Year 2019 Month August
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			15	234,000	
2	D-50		2.21			N-162		2.37	14	237,000	
3	D-50					N-162			12	178,000	
4	D-50					N-162			12	216,000	
5	D-50		2.49			N-162		2.47	12	193,000	
6	D-50					N-162			19	282,000	
7	D-50		2.43			N-162		2.25	13	214,000	
8	D-50					N-162			14	246,000	
9	D-50		2.57			N-162		2.29	12	205,000	
10	D-50					N-162			14	234,000	
11	D-50					N-162			14	221,000	
12	D-50		2.86			N-162		2.53	12	188,000	
13	D-50					N-162			8	180,000	
14	D-50		2.45			N-162		2.52	18	252,000	
15	D-50					N-162			11	236,000	
16	D-50		2.19			N-162		2.00	12	235,000	
17	D-50					N-162			12	207,000	
18	D-50					N-162			18	292,000	
19	D-50		2.31			N-162		2.38	9	140,000	
20	D-50					N-162			16	272,000	
21	D-50		2.24			N-162		2.31	12	224,000	
22	D-50					N-162			12	207,000	
23	D-50		2.39			N-162		2.44	10	209,000	
24	D-50					N-162			14	206,000	
25	D-50					N-162			13	214,000	
26	D-50		2.21			N-162		2.13	7	219,000	
27	D-50					N-162			20	210,000	
28	D-50		2.07			N-162		2.17	14	261,000	
29	D-50					N-162			16	256,000	
30	D-50		2.04			N-162		2.08	14	205,000	
31	D-50					N-162			14	212,000	
Totals			30.46					29.94	413	6,885,000	
Min			2.04					2.00	7	140,000	
Max			2.86					2.53	20	292,000	
Ave			2.34					2.30	13	222,097	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

No. of Connections: 38
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Year 2019 Month August
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					Y-61			4	37,303	
2	W-71		2.43			Y-61		2.60	4	32,614	
3	W-71					Y-61			4	34,877	
4	W-71					Y-61			4	34,221	
5	W-71		3.26			Y-61		3.77	3	30,137	
6	W-71					Y-61			5	47,163	
7	W-71		3.12			Y-61		3.36	6	40,690	
8	W-71					Y-61			4	42,200	
9	W-71		3.19			Y-61			4	37,004	Road Closed
10	W-71					Y-61			4	29,004	
11	W-71					Y-61			4	37,998	
12	W-71		3.25			Y-61		3.29	3	28,430	
13	W-71					Y-61			3	38,709	
14	W-71		3.89			Y-61		3.54	6	54,389	
15	W-71					Y-61			4	38,457	
16	W-71		3.33			Y-61		3.10	8	39,963	
17	W-71					Y-61			0	36,613	
18	W-71					Y-61			6	39,582	
19	W-71		3.32			Y-61		3.22	3	41,124	
20	W-71					Y-61			3	30,007	
21	W-71		3.40			Y-61		3.26	7	40,789	
22	W-71					Y-61			2	30,498	
23	W-71		3.14			Y-61		2.83	5	40,004	
24	W-71					Y-61			4	29,803	
25	W-71					Y-61			6	42,986	
26	W-71		3.46			Y-61		3.38	2	25,731	
27	W-71					Y-61			4	33,727	
28	W-71		3.31			Y-61		3.26	4	37,437	
29	W-71					Y-61			4	40,673	
30	W-71		2.89			Y-61		3.16	4	39,752	
31	W-71					Y-61			2	29,797	
Totals			41.99					38.77	126	1,141,682	
Min			2.43					2.60	0	25,731	
Max			3.89					3.77	8	54,389	
Ave			3.23					3.23	4	36,828	

Signed: Robert Wilt
Printed Name: Robert Wilt

August 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
August 2nd	73,744,000	892,000
August 9th	74,818,000	1,074,000
August 15th	75,615,000	797,000
August 22nd	76,691,000	1,076,000
August 29th	77,781,000	1,090,000
August total		4,929,000