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

October 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: September 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. September 2019 Chlorination Reports for Main Base and Island Locations (Enclosures 1 and 2)
2. September 2019 Orthophosphate Reports for Main Base and Island Locations (Enclosures 3 and 4)
3. September 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 September
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	0.07		1.61		N-162	0.34		132	202,000	
2	D-50	0.98	0.98	1.45	1.84	N-162	0.51	0.84	110	191,000	
3	D-50	0.00		1.40		N-162	0.49		140	243,000	
4	D-50	0.02		1.25		N-162	1.20		120	221,000	
5	D-50	0.05		1.34		N-162	1.13		142	236,000	
6	D-50			1.36		N-162			120	167,000	weather
7	D-50	0.96		1.28		N-162	1.01		77	134,000	
8	D-50	0.90		1.11		N-162	0.89		76	144,000	
9	D-50	0.75	0.89	1.23	1.80	N-162	0.84	0.91	112	145,000	
10	D-50	1.06		1.30		N-162	0.80		72	144,000	
11	D-50	1.21		1.40		N-162	0.93		120	169,000	
12	D-50	1.23		1.27		N-162	0.91		95	161,000	
13	D-50	1.12		1.39		N-162	0.96		108	160,000	
14	D-50	1.12		1.32		N-162	0.95		100	137,000	
15	D-50	1.20		1.33		N-162	0.88		90	152,000	
16	D-50	1.31	1.37	1.19	1.31	N-162	1.01	1.02	105	173,000	
17	D-50	1.12		1.24		N-162	0.95		112	175,000	
18	D-50	0.91		1.19		N-162	0.96		80	169,000	
19	D-50	0.29		1.39		N-162	0.87		130	169,000	
20	D-50	1.24		1.47		N-162	1.08		85	148,000	
21	D-50	1.42		1.68		N-162	0.80		110	154,000	
22	D-50	1.50		1.81		N-162	0.87		108	210,000	hydrant flush
23	D-50	1.65	1.76	1.87	2.06	N-162	1.32	1.38	104	131,000	
24	D-50	1.65		1.95		N-162	1.03		77	165,000	
25	D-50	1.62		1.77		N-162	1.33		84	128,000	
26	D-50	1.74		1.86		N-162	1.39		112	168,000	
27	D-50	1.65		1.78		N-162	1.55		124	214,000	
28	D-50	1.60		1.73		N-162	1.38		140	191,000	
29	D-50	1.47		1.65		N-162	1.42		110	192,000	hydrant flush
30	D-50	1.43	1.50	1.62	1.64	N-162	1.45	1.53	132	178,000	
Totals		31.27	6.50	44.24	8.65		29.25	5.68	3,227	5,171,000	
Min		0.00	0.89	1.11	1.31		0.34	0.84	72	128,000	
Max		1.74	1.76	1.95	2.06		1.55	1.53	142	243,000	
Ave		1.08	1.30	1.47	1.73		1.01	1.14	108	172,367	

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 September
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	0.93		1.35		Y 61	1.01		20	29,522	
2	W 71	0.97	1.04	1.38	1.51	Y 61	0.94	1.00	20	28,699	
3	W 71	0.73		0.36		Y 61	1.05		30	41,285	
4	W 71	0.87		0.88		Y 61	0.70		28	39,180	
5	W 71	0.10		1.52		Y 61	0.48		32	40,546	weather
6	W 71			1.39		Y 61			10	20,252	weather
7	W 71	0.80		1.16		Y 61	0.65		10	24,552	
8	W 71	0.54		1.35		Y 61	0.77		14	29,672	
9	W 71	0.62	0.64	1.35	1.54	Y 61	1.00	1.06	13	18,868	
10	W 71			1.52		Y 61	0.77		21	41,911	no access to north end
11	W 71	1.29		1.24		Y 61			20	39,143	no access to Y61
12	W 71	0.97		1.41		Y 61	0.77		46	62,206	
13	W 71	0.68		1.32		Y 61	0.59		26	33,662	
14	W 71			1.39		Y 61			20	30,034	
15	W 71	0.62		1.43		Y 61	0.66		18	48,426	
16	W 71	0.58	0.49	1.23	1.37	Y 61	0.66	0.71	10	29,040	
17	W 71	0.52		1.28		Y 61			20	30,192	no access to Y61
18	W 71	0.71		1.33		Y 61	1.13		22	40,224	
19	W 71	0.62		1.22		Y 61	0.26		17	38,379	
20	W 71	0.60		1.38		Y 61	0.47		35	40,215	
21	W 71	0.50		1.46		Y 61	0.67		30	38,687	
22	W 71	0.58		1.55		Y 61	0.78		30	38,895	
23	W 71	0.59	0.59	1.16	1.16	Y 61	0.84	0.84	12	16,930	
24	W 71	0.50		1.28		Y 61	0.37		34	57,004	
25	W 71	0.62		1.36		Y 61	0.64		36	41,665	
26	W 71	0.59		1.58		Y 61	0.64		12	39,935	
27	W 71	0.85		1.39		Y 61	0.65		26	50,401	
28	W 71	0.65		1.47		Y 61	0.70		44	38,496	
29	W 71	0.75		1.46		Y 61	0.89		28	49,838	
30	W 71	0.74	0.80	1.27	1.46	Y 61	0.71	0.73	26	30,940	
Totals		18.52	3.56	39.47	7.04		18.80	4.34	710	1,108,799	
Min		0.10	0.49	0.36	1.16		0.26	0.71	10	16,930	
Max		1.29	1.04	1.58	1.54		1.13	1.06	46	62,206	
Ave		0.69	0.71	1.32	1.41		0.72	0.87	24	36,960	

Signed: Robert Witt
Printed Name: Robert Witt

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

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

Year 2019 Month September
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			12	202,000	
2	D-50		2.22			N-162		2.35	12	191,000	
3	D-50					N-162			14	243,000	
4	D-50		2.08			N-162		1.96	14	221,000	
5	D-50					N-162			16	236,000	
6	D-50					N-162			10	167,000	weather
7	D-50					N-162			8	134,000	
8	D-50					N-162			10	144,000	
9	D-50		2.28			N-162		2.34	8	145,000	
10	D-50					N-162			9	144,000	
11	D-50		2.27			N-162		2.32	9	169,000	
12	D-50					N-162			9	161,000	
13	D-50		2.25			N-162		2.07	11	160,000	
14	D-50					N-162			7	137,000	
15	D-50					N-162			9	152,000	
16	D-50		2.33			N-162		2.22	8	173,000	
17	D-50					N-162			12	175,000	
18	D-50		2.29			N-162		2.31	9	169,000	
19	D-50					N-162			9	169,000	
20	D-50		2.09			N-162		2.10	6	148,000	
21	D-50					N-162			8	154,000	
22	D-50					N-162			8	210,000	
23	D-50		2.19			N-162		2.19	7	131,000	
24	D-50					N-162			9	165,000	
25	D-50		2.12			N-162		1.83	8	128,000	
26	D-50					N-162			10	168,000	
27	D-50		2.24			N-162		2.00	12	214,000	
28	D-50					N-162			12	191,000	
29	D-50		1.98			N-162		1.96	10	192,000	
30	D-50					N-162			10	178,000	
Totals			26.34					25.65	296	5,171,000	
Min			1.98					1.83	6	128,000	
Max			2.33					2.35	16	243,000	
Ave			2.20					2.14	10	172,367	

Signed: [signature]
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

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

Year 2019 Month September
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			2	29,522	
2	W-71		3.13			Y-61		3.27	0	28,699	
3	W-71					Y-61			4	41,285	
4	W-71		2.77			Y-61		1.45	4	39,180	
5	W-71					Y-61			4	40,546	
6	W-71					Y-61			2	20,252	weather
7	W-71					Y-61			4	24,552	
8	W-71					Y-61			2	29,672	
9	W-71		3.36			Y-61		3.78	2	18,868	
10	W-71					Y-61			5	41,911	
11	W-71		3.64			Y-61			4	39,143	no access Y-61
12	W-71					Y-61			7	62,206	
13	W-71		3.00			Y-61		3.12	6	33,662	
14	W-71					Y-61			4	30,034	
15	W-71					Y-61			4	48,426	
16	W-71		3.14			Y-61		3.23	2	29,040	
17	W-71					Y-61			4	30,192	
18	W-71		3.23			Y-61		3.40	6	40,224	
19	W-71					Y-61			4	38,379	
20	W-71		3.21			Y-61		3.33	4	40,215	
21	W-71					Y-61			4	38,687	
22	W-71					Y-61			3	38,895	
23	W-71		3.47			Y-61		3.32	3	16,930	
24	W-71					Y-61			6	57,004	
25	W-71		2.97			Y-61		3.29	6	41,665	
26	W-71					Y-61			2	39,935	
27	W-71		2.95			Y-61		5.40	6	50,401	
28	W-71					Y-61			4	38,496	
29	W-71		3.13			Y-61		3.31	4	49,838	
30	W-71					Y-61			4	30,940	
Totals			38.00					36.90	116	1,108,799	
Min			2.77					1.45	0	16,930	
Max			3.64					5.40	7	62,206	
Ave			3.17					3.35	4	36,960	

Signed: Robert Witt
Printed Name: Robert Witt

September 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
September 5th	78,869,000	1,088,000
September 12th	79,530,000	661,000
September 19th	80,180,000	650,000
September 26th	80,777,000	597,000
September total		2,996,000