National Aeronautics and Space Administration

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

August 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: July 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. July 2019 Chlorination Reports for Main Base and Island Locations (Enclosures 1 and 2)
2. July 2019 Orthophosphate Reports for Main Base and Island Locations (Enclosures 3 and 4)
3. July 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.

For 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 July
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	0.05	0.07	1.43	1.83	N-162	0.01	0.04	56	110000	
2	D-50	0.00		1.39		N-162	0.00		96	142000	
3	D-50	0.00		1.73		N-162	0.35		122	182000	
4	D-50	0.11		1.58		N-162	0.00		92	145000	
5	D-50	0.20		1.64		N-162	0.00		110	147000	
6	D-50	0.10		1.02		N-162	0.04		78	116000	
7	D-50	0.09		1.69		N-162	0.14		142	226000	
8	D-50	0.23	0.25	1.63	1.71	N-162	0.19	0.24	86	110000	
9	D-50	0.29		1.25		N-162	0.11		150	236000	
10	D-50	0.12		1.24		N-162	0.00		144	236000	
11	D-50	0.07		1.27		N-162	0.66		146	259000	
12	D-50	0.04		1.69		N-162			158	223000	
13	D-50	0.07		1.71		N-162	0.63		122	155000	
14	D-50	0.32		1.91		N-162	1.12		178	259000	
15	D-50	0.05	0.19	1.86	1.88	N-162	1.25	1.41	75	111000	
16	D-50	0.02		1.39		N-162	1.32		177	272000	
17	D-50	1.05		1.38		N-162	1.37		118	201000	
18	D-50	0.82		1.43		N-162	1.04		139	229000	
19	D-50	1.09		1.49		N-162	1.13		158	217000	
20	D-50	0.94		1.57		N-162	1.00		104	169000	
21	D-50	0.97		1.12		N-162	0.99		188	270000	
22	D-50	1.10	1.26	1.32	1.56	N-162	1.02	1.11	78	132000	
23	D-50	0.97		1.3		N-162	1.00		146	199000	
24	D-50	0.86		1.43		N-162	0.85		113	225000	
25	D-50	0.61		1.4		N-162	0.81		154	233000	
26	D-50	1.09		1.51		N-162			124	197000	
27	D-50	0.98		1.72		N-162	0.95		116	185000	7/27 35k Bypass
28	D-50	1.34		1.71		N-162	1.01		106	154000	
29	D-50	1.47	1.55	1.69	1.76	N-162	1.07	1.14	108	175000	
30	D-50	1.01		1.27		N-162	1.26		162	255000	
31	D-50	0.63		1.66		N-162	1.37		115	220000	
Totals		16.69	3.32	46.43	8.74		20.69	3.94	3,861	5,990,000	
Min		0.00	0.07	1.02	1.56		0.00	0.04	56	110,000	
Max		1.47	1.55	1.91	1.88		1.37	1.41	188	272,000	
Ave		0.54	0.66	1.50	1.75		0.71	0.79	125	193,226	

Signed: [illegible]
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT OF HEALTH
WATER CHLORINATION REPORT

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

Year 2019 Month July
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	1.00	0.73	0.98	1.01	Y 61	0.78	1.22	6	19969	
2	W 71	1.02		1.08		Y 61	0.63		22	40810	
3	W 71	0.81		1.13		Y 61	0.45		25	41229	
4	W 71	0.66		1.08		Y 61	0.55		31	31017	
5	W 71	0.51		1.11		Y 61	0.53		18	30060	
6	W 71	0.58		1.68		Y 61	0.56		18	33100	
7	W 71	0.47		1.01		Y 61	0.19		26	39985	
8	W 71	0.57	0.60	0.92	1.06	Y 61	0.31	0.4	20	28534	weather
9	W 71	0.63		1.08		Y 61	0.4		22	33246	
10	W 71	0.61		1.10		Y 61	0.33		16	40180	
11	W 71	0.50		1.27		Y 61	0.58		30	30231	
12	W 71	0.53		1.30		Y 61	0.65		38	50675	
13	W 71	0.55		1.06		Y 61	0.66		6	30134	
14	W 71	0.54		1.28		Y 61	0.74		34	50880	
15	W 71	0.51	0.54	0.71	0.81	Y 61	0.95	0.9	38	59909	Filling Deluge
16	W 71	0.43		1.71		Y 61	1		24	32079	
17	W 71	0.45		1.06		Y 61	0.45		28	39995	
18	W 71	0.27		1.13		Y 61	0.11		28	37725	
19	W 71	0.41		1.41		Y 61	0.2		30	50014	
20	W 71	0.58		1.37		Y 61	0.43		44	52183	
21	W 71	0.64		1.32		Y 61	0.63		36	59659	
22	W 71	0.56	0.58	1.30	1.30	Y 61	0.38	0.27	23	23043	
23	W 71	0.19		1.29		Y 61	0.34		26	39218	
24	W 71	0.50		1.07		Y 61	0.24		24	38310	
25	W 71	0.30		1.12		Y 61	0.32		25	41200	
26	W 71	0.39		0.92		Y 61	0.18		56	78009	Mars
27	W 71	0.50		0.63		Y 61	0.43		30	57137	
28	W 71	0.29		1.10		Y 61	0.2		28	46561	
29	W 71	0.28	0.35	0.87	1.11	Y 61	0.22	0.27	2	22769	
30	W 71	0.53		0.99		Y 61	0.56		50	69715	
31	W 71	0.26		0.9		Y 61	0.21		28	39736	
Totals		16.07	2.80	34.98	5.29		14.21	3.06	832	1,287,312	
Min		0.19	0.35	0.63	0.81		0.11	0.27	2	19,969	
Max		1.02	0.73	1.71	1.30		1.00	1.22	56	78,009	
Ave		0.52	0.56	1.13	1.06		0.46	0.61	27	41,526	

Signed: Robert W. H
Printed Name: Robert W. H

VIRGINIA STATE DEPARTMENT OF HEALTH ORTHOPHOSPHATE REPORT

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

Year 2019 Month July
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		2.31			N-162		2.11	6	110,000	
2	D-50					N-162			10	142,000	
3	D-50		1.66			N-162		2.26	10	182,000	
4	D-50					N-162			12	145,000	
5	D-50		2.15			N-162		2.30	10	147,000	
6	D-50					N-162			8	116,000	
7	D-50					N-162			16	226,000	
8	D-50		2.15			N-162		2.21	8	110,000	
9	D-50					N-162			16	236,000	
10	D-50		2.13			N-162		2.29	14	236,000	
11	D-50					N-162			17	259,000	
12	D-50		2.34			N-162			15	223,000	
13	D-50					N-162			10	155,000	
14	D-50					N-162			16	259,000	
15	D-50		1.36			N-162		2.38	7	111,000	
16	D-50					N-162			17	272,000	
17	D-50		2.72			N-162		2.49	12	201,000	
18	D-50					N-162			14	229,000	
19	D-50		2.39			N-162		2.44	14	217,000	
20	D-50					N-162			10	169,000	
21	D-50					N-162			16	270,000	
22	D-50		2.57			N-162		2.54	9	132,000	
23	D-50					N-162			13	199,000	
24	D-50		2.61			N-162		2.41	14	225,000	
25	D-50					N-162			14	233,000	
26	D-50		2.07			N-162			12	197,000	
27	D-50					N-162			10	185,000	+35k
28	D-50					N-162			10	154,000	Bypass
29	D-50		2.34			N-162		2.37	10	175,000	
30	D-50					N-162			14	255,000	
31	D-50		2.33			N-162		2.61	15	220,000	
Totals			31.13					28.41	379	5,990,000	
Min			1.36					2.11	6	110,000	
Max			2.72					2.61	17	272,000	
Ave			2.22					2.37	12	193,226	

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 July
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001535 Mainland(Island)

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	W-71		3.11			Y-61		3.33	1	19,969	
2	W-71					Y-61			1	40,810	
3	W-71		2.15			Y-61		2.30	0	41,229	
4	W-71					Y-61			0	31,017	
5	W-71		1.89			Y-61		2.17	0	30,060	
6	W-71					Y-61			0	33,100	
7	W-71					Y-61			4	39,985	
8	W-71		2.42			Y-61		1.88	2	28,534	
9	W-71					Y-61			6	33,246	
10	W-71		2.27			Y-61		2.03	2	40,180	
11	W-71					Y-61			5	30,231	
12	W-71		2.41			Y-61		2.29	5	50,675	
13	W-71					Y-61			4	30,134	
14	W-71					Y-61			1	50,880	
15	W-71		3.18			Y-61		3.64	12	59,909	
16	W-71					Y-61			7	32,079	
17	W-71		3.46			Y-61		3.81	3	39,995	
18	W-71					Y-61			3	37,725	
19	W-71		3.03			Y-61		3.58	6	50,014	
20	W-71					Y-61			6	52,183	
21	W-71					Y-61			8	59,659	
22	W-71		3.44			Y-61		3.61	3	23,043	
23	W-71					Y-61			3	39,218	
24	W-71		3.51			Y-61		3.39	4	38,310	
25	W-71					Y-61			4	41,200	
26	W-71		2.98			Y-61		3.07	8	78,009	
27	W-71					Y-61			8	57,317	
28	W-71					Y-61			4	46,561	
29	W-71		3.28			Y-61		3.25	2	22,769	
30	W-71					Y-61			10	69,715	
31	W-71		3.45			Y-61		3.8	4	39,736	
Totals			40.58					42.15	126	1,287,492	
Min			1.89					1.88	0	19,969	
Max			3.51					3.81	12	78,009	
Ave			2.90					3.01	4	41,532	

Signed: Robert Wilt
Printed Name: Robert Wilt

July 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
July 4th	70,306,000	572,000
July 11th	71,089,000	783,000
July 18th	72,012,000	923,000
July 25th	72,852,000	840,000
July Total		3,118,000