



2022 Lake Gaston *Microseira (Lyngbya) wollei* Control Summary and 2023 Plan

Submitted To:

**The Lake Gaston Weed Control Council &
Roanoke Rapids Lake Gaston Aquatic Weed Control**

Prepared By:

Aqua Services, Inc.

Address: 23360 US Highway 431

Guntersville, AL 35976

Telephone #: (888) 669-3337, (256) 582-9101

Fax #: (256) 582-0938

Introduction / History

In 2021 Aqua Services, Inc. was contracted by the Lake Gaston Weed Control Council to deploy its deep water application equipment that is specifically designed to target deep water aquatic vegetation and, more specifically, *Microseira*. This technique was developed by Aqua Services, Inc. and used successfully on other systems in the southeast to significantly reduce the instances and abundance of *Microseira*. As suspected, it is proving to work very well on Lake Gaston as well.



Treatment Approach

The treatment approach is for NC State to identify the areas with the highest levels of nuisance infestations. At that point a collaborative effort is presented by NC State and SePro to designate the appropriate application rates for each site.

That information is then reviewed by Aqua Services, Inc. and the application is implemented. The applications begin in April and are conducted once per month through September. After an incident in 2021 involving mussels and mucklets the treatment approach was revised slightly to avoid sandy, shallow water areas that have a high probability of the presence of mucklets. That method proved very effective.

2022 Review

In the spring of 2022 Aqua Services, Inc. signed a 1-year contract with the possibility of a 2 year extension. After a very successful application season in 2022 that extension was exercised for 2023 and 2024. Aqua Services, Inc. will continue to collaborate with the LGWCC and NC State to provide the most up to date application techniques and technology to ensure that the levels of *Microseira* control that have been realized in 2021 and 2022 will continue. I am also pleased to say that the treatment approach implemented in 2021 was very successful in 2022 and no adverse effects were detected, or reported, in 2022. One change was made and that is the addition of shallow water applications to matted *Microseira* with either shallow water hoses or spray wands. And the only time this is implemented is when NC state agrees that should occur. In short, 2022 was a very successful year in terms of *Microseira* control utilizing the most up-to-date technology, good products, excellent detection and selection, and treatments beginning early in the year and attacking the *Microseira* before it is matted.



2023 Possibilities

Looking toward 2023, we will implement the same, but refined, technology for an even more rapid and effective response. We also feel this refined technology will enhance our control efforts even further than previously seen. Aqua Services, while on the water, will also search for potential aquatic plant species that may be considered invasive and may need to be addressed. Aqua Services will also be donating it's time to conduct applications on test plots to seek viable options for even more effective control of *Microseira*.

Treatment Data/Product Use/Inventory

Site 2						
3 ft avg depth, 11.8 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	53.1	53.1	53.1	53.1	53.1	53.1
AMP (gal)	8.85	8.85	8.85	8.85	8.85	8.85
Total Product Volume (gal)	61.95	61.95	61.95	61.95	61.95	61.95

Site 3						
4 ft avg depth, 6.39 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	38.34	38.34	38.34	38.34	38.34	38.34
AMP (gal)	6.39	6.39	6.39	6.39	6.39	6.39
Total Product Volume (gal)	44.73	44.73	44.73	44.73	44.73	44.73

Site 4						
9.2 ft avg depth, 7.51 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	103.96	103.96	103.96	103.96	103.96	103.96
AMP (gal)	34.65	34.65	34.65	34.65	34.65	34.65
Total Product Volume (gal)	138.61	138.61	138.61	138.61	138.61	138.61

Site 5						
4 ft avg depth, 8.59 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	51.54	51.54	51.54	51.54	51.54	51.54
AMP (gal)	8.59	8.59	8.59	8.59	8.59	8.59
Total Product Volume (gal)	60.13	60.13	60.13	60.13	60.13	60.13



Site 6						
3 ft avg depth, 26.2 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	188.64	188.64	188.64	188.64	188.64	188.64
AMP (gal)	19.65	19.65	19.65	19.65	19.65	19.65
Total Product Volume (gal)	208.29	208.29	208.29	208.29	208.29	208.29

Site 7						
4 ft avg depth, 26.2 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	78.6	78.6	78.6	78.6	78.6	78.6
AMP (gal)	26.2	26.2	26.2	26.2	26.2	26.2
Total Product Volume (gal)	104.8	104.8	104.8	104.8	104.8	104.8

Site 8b						
4.2 ft avg depth, 15.6 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	158.08	158.08	158.08	158.08	158.08	158.08
AMP (gal)	32.93	32.93	32.93	32.93	32.93	32.93
Total Product Volume (gal)	191.01	191.01	191.01	191.01	191.01	191.01

Site 9						
4 ft avg depth, 8.71 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	52.26	52.26	52.26	52.26	52.26	52.26
AMP (gal)	11.5	11.5	11.5	11.5	11.5	11.5
Total Product Volume (gal)	63.76	63.76	63.76	63.76	63.76	63.76

Site 10a						
4 ft avg depth, 3 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	18	18	18	18	18	18
AMP (gal)	6	6	6	6	6	6
Total Product Volume (gal)	24	24	24	24	24	24

Site 11a						
3 ft avg depth, 2.1 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	15.12	15.12	15.12	15.12	15.12	15.12
AMP (gal)	4.73	4.73	4.73	4.73	4.73	4.73
Total Product Volume (gal)	19.85	19.85	19.85	19.85	19.85	19.85

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Site 11b						
3 ft avg depth, 6.66 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	43.96	43.96	43.96	43.96	43.96	43.96
AMP (gal)	9.99	9.99	9.99	9.99	9.99	9.99
Total Product Volume (gal)	53.95	53.95	53.95	53.95	53.95	53.95

Site 11c						
4.3 ft avg depth, 2.3 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	23.86	23.86	23.86	23.86	23.86	23.86
AMP (gal)	4.97	4.97	4.97	4.97	4.97	4.97
Total Product Volume (gal)	28.83	28.83	28.83	28.83	28.83	28.83

Site 11d						
4 ft avg depth, 10.5 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	100.8	100.8	100.8	100.8	100.8	100.8
AMP (gal)	31.5	31.5	31.5	31.5	31.5	31.5
Total Product Volume (gal)	132.3	132.3	132.3	132.3	132.3	132.3

Site 12						
3 ft avg depth, 17.8 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	80.1	80.1	80.1	80.1	80.1	80.1
AMP (gal)	13.35	13.35	13.35	13.35	13.35	13.35
Total Product Volume (gal)	93.45	93.45	93.45	93.45	93.45	93.45

Site 13						
4.6 ft avg depth, 8.71 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	60.74	60.74	60.74	60.74	60.74	60.74
AMP (gal)	10.12	10.12	10.12	10.12	10.12	10.12
Total Product Volume (gal)	70.86	70.86	70.86	70.86	70.86	70.86

Site 17						
5.8 ft avg depth, 3.64 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	51.05	51.05	51.05	51.05	51.05	51.05
AMP (gal)	10.64	10.64	10.64	10.64	10.64	10.64
Total Product Volume (gal)	61.69	61.69	61.69	61.69	61.69	61.69

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Site 18						
4.7 ft avg depth, 5.69 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	64.8	64.8	64.8	64.8	64.8	64.8
AMP (gal)	6.75	6.75	6.75	6.75	6.75	6.75
Total Product Volume (gal)	71.55	71.55	71.55	71.55	71.55	71.55

Site 19						
5.4 ft avg depth, 7.58 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	98.97	98.97	98.97	98.97	98.97	98.97
AMP (gal)	13.61	13.61	13.61	13.61	13.61	13.61
Total Product Volume (gal)	112.58	112.58	112.58	112.58	112.58	112.58

Site 20						
4.9 ft avg depth, 1.3 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	9.64	9.64	9.64	9.64	9.64	9.64
AMP (gal)	3.21	3.21	3.21	3.21	3.21	3.21
Total Product Volume (gal)	12.85	12.85	12.85	12.85	12.85	12.85

Site 21						
8.2 ft avg depth, 1.26 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	24.69	24.69	24.69	24.69	24.69	24.69
AMP (gal)	7.72	7.72	7.72	7.72	7.72	7.72
Total Product Volume (gal)	32.41	32.41	32.41	32.41	32.41	32.41

Site 22						
5.3 ft avg depth, 3.39 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	26.89	26.89	26.89	26.89	26.89	26.89
AMP (gal)	8.96	8.96	8.96	8.96	8.96	8.96
Total Product Volume (gal)	35.85	35.85	35.85	35.85	35.85	35.85

Site 23						
2.2 ft avg depth, 1.3 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	4.3	4.3	4.3	4.3	4.3	4.3
AMP (gal)	1.43	1.43	1.43	1.43	1.43	1.43
Total Product Volume (gal)	5.73	5.73	5.73	5.73	5.73	5.73

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Site 24						
7.2 ft avg depth, 3.19 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	54.97	54.97	54.97	54.97	54.97	54.97
AMP (gal)	11.45	11.45	11.45	11.45	11.45	11.45
Total Product Volume (gal)	66.42	66.42	66.42	66.42	66.42	66.42

Site 25						
3.5 ft avg depth, 3.15 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	16.77	16.77	16.77	16.77	16.77	16.77
AMP (gal)	5.59	5.59	5.59	5.59	5.59	5.59
Total Product Volume (gal)	22.36	22.36	22.36	22.36	22.36	22.36

Site 26						
4.7 ft avg depth, 2.84 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	19.85	19.85	19.85	19.85	19.85	19.85
AMP (gal)	6.62	6.62	6.62	6.62	6.62	6.62
Total Product Volume (gal)	26.47	26.47	26.47	26.47	26.47	26.47

Site 27						
5.1 ft avg depth, 2.18 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	16.81	16.81	16.81	16.81	16.81	16.81
AMP (gal)	5.6	5.6	5.6	5.6	5.6	5.6
Total Product Volume (gal)	22.41	22.41	22.41	22.41	22.41	22.41

Site 28						
6.2 ft avg depth, 6.82 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	63.43	63.43	63.43	63.43	63.43	63.43
AMP (gal)	10.57	10.57	10.57	10.57	10.57	10.57
Total Product Volume (gal)	74	74	74	74	74	74

Site 29						
5.7 ft avg depth, 15.2 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	130.75	130.75	130.75	130.75	130.75	130.75
AMP (gal)	43.58	43.58	43.58	43.58	43.58	43.58
Total Product Volume (gal)	174.33	174.33	174.33	174.33	174.33	174.33

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Site 30						
3.2 ft avg depth, 6.77 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	32.12	32.12	32.12	32.12	32.12	32.12
AMP (gal)	10.71	10.71	10.71	10.71	10.71	10.71
Total Product Volume (gal)	42.83	42.83	42.83	42.83	42.83	42.83

Site 31						
4.8 ft avg depth, 2.44 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	17.57	17.57	17.57	17.57	17.57	17.57
AMP (gal)	5.86	5.86	5.86	5.86	5.86	5.86
Total Product Volume (gal)	23.43	23.43	23.43	23.43	23.43	23.43

Site 32						
5.2 ft avg depth, 5.93 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	46.5	46.5	46.5	46.5	46.5	46.5
AMP (gal)	15.5	15.5	15.5	15.5	15.5	15.5
Total Product Volume (gal)	62	62	62	62	62	62

Site 33 (Lyons Old)						
4.4 ft avg depth, 9.65 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	63.39	63.39	63.39	63.39	63.39	63.39
AMP (gal)	21.23	21.23	21.23	21.23	21.23	21.23
Total Product Volume (gal)	84.62	84.62	84.62	84.62	84.62	84.62

Site 33 (Lyons Expansion)						
3 ft avg depth, 7.96 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	35.82	35.82	35.82	35.82	35.82	35.82
AMP (gal)	11.94	11.94	11.94	11.94	11.94	11.94

Site 34						
5.5 ft avg depth, 3.16 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Cutrine Ultra (gal)	42.02	42.02	42.02	42.02	42.02	42.02
AMP (gal)	8.75	8.75	8.75	8.75	8.75	8.75
Total Product Volume (gal)	50.77	50.77	50.77	50.77	50.77	50.77

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Site 37						
4.7 ft avg depth, 3.1 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	22.05	22.05	22.05	22.05	22.05	22.05
AMP (gal)	7.35	7.35	7.35	7.35	7.35	7.35
Total Product Volume (gal)	29.4	29.4	29.4	29.4	29.4	29.4

Site 38						
3.6 ft avg depth, 1.68 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	9.01	9.01	9.01	9.01	9.01	9.01
AMP (gal)	3	3	3	3	3	3
Total Product Volume (gal)	12.01	12.01	12.01	12.01	12.01	12.01

Site 39						
5 ft avg depth, 1.14 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	8.53	8.53	8.53	8.53	8.53	8.53
AMP (gal)	2.84	2.84	2.84	2.84	2.84	2.84
Total Product Volume (gal)	11.37	11.37	11.37	11.37	11.37	11.37

Site 40						
4 ft avg depth, 2.76 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	16.66	16.66	16.66	16.66	16.66	16.66
AMP (gal)	5.55	5.55	5.55	5.55	5.55	5.55
Total Product Volume (gal)	22.21	22.21	22.21	22.21	22.21	22.21

Site 41						
3.3 ft avg depth, 8.43 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	66.5	66.5	66.5	66.5	66.5	66.5
AMP (gal)	13.85	13.85	13.85	13.85	13.85	13.85
Total Product Volume (gal)	80.35	80.35	80.35	80.35	80.35	80.35

Site 42						
3.9 ft avg depth, 8.46 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	78.87	78.87	78.87	78.87	78.87	78.87
AMP (gal)	16.43	16.43	16.43	16.43	16.43	16.43
Total Product Volume (gal)	95.3	95.3	95.3	95.3	95.3	95.3

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Site 43						
4.8 ft avg depth, 5.59 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	39.98	39.98	39.98	39.98	39.98	39.98
AMP (gal)	13.33	13.33	13.33	13.33	13.33	13.33
Total Product Volume (gal)	53.31	53.31	53.31	53.31	53.31	53.31

Site 44						
2.7 ft avg depth, 5.4 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	21.6	21.6	21.6	21.6	21.6	21.6
AMP (gal)	7.2	7.2	7.2	7.2	7.2	7.2
Total Product Volume (gal)	28.8	28.8	28.8	28.8	28.8	28.8

Site 45						
5.2 ft avg depth, 3.57 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	28.03	28.03	28.03	28.03	28.03	28.03
AMP (gal)	9.34	9.34	9.34	9.34	9.34	9.34
Total Product Volume (gal)	37.37	37.37	37.37	37.37	37.37	37.37

Site 46						
6.2 ft avg depth, 5.61 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	51.84	51.84	51.84	51.84	51.84	51.84
AMP (gal)	17.28	17.28	17.28	17.28	17.28	17.28
Total Product Volume (gal)	69.12	69.12	69.12	69.12	69.12	69.12

Site 47						
3.8 ft avg depth, 20 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	56.46	56.46	56.46	56.46	56.46	56.46
AMP (gal)	37.64	37.64	37.64	37.64	37.64	37.64
Total Product Volume (gal)	94.1	94.1	94.1	94.1	94.1	94.1

Site 48						
4.4 ft avg depth, 7.13 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	46.84	46.84	46.84	46.84	46.84	46.84
AMP (gal)	15.61	15.61	15.61	15.61	15.61	15.61
Total Product Volume (gal)	62.45	62.45	62.45	62.45	62.45	62.45

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Site 49						
6.1 ft avg depth, 8.24 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Citrine Ultra (gal)	75.78	75.78	75.78	75.78	75.78	75.78
AMP (gal)	25.26	25.26	25.26	25.26	25.26	25.26
Total Product Volume (gal)	101.04	101.04	101.04	101.04	101.04	101.04

Site 50						
4.15 ft avg depth, 3 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	18.68	18.68	18.68	18.68	18.68	18.68
AMP (gal)	6.23	6.23	6.23	6.23	6.23	6.23
Total Product Volume (gal)	24.91	24.91	24.91	24.91	24.91	24.91

Site 51						
4.26 ft avg depth, 3.5 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	22.37	22.37	0	0	0	0
AMP (gal)	7.46	7.46	0	0	0	0
Total Product Volume (gal)	29.83	29.83	0	0	0	0

Site 51 (revised beginning with June treatments)						
4.26 ft avg depth, 1.9 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	0	0	12.14	12.14	12.14	12.14
AMP (gal)	0	0	4.05	4.05	4.05	4.05
Total Product Volume (gal)	0	0	16.19	16.19	16.19	16.19

Site 52						
5.27 ft avg depth, 8.59 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	67.9	67.9	67.9	67.9	67.9	67.9
AMP (gal)	11.32	11.32	11.32	11.32	11.32	11.32
Total Product Volume (gal)	79.22	79.22	79.22	79.22	79.22	79.22

Site 53						
5.81 ft avg depth, 7.7 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	67.11	67.11	67.11	67.11	67.11	67.11
AMP (gal)	22.37	22.37	22.37	22.37	22.37	22.37
Total Product Volume (gal)	89.48	89.48	89.48	89.48	89.48	89.48

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Site 54						
5.73 ft avg depth, 3.97 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	34.12	34.12	34.12	34.12	34.12	34.12
AMP (gal)	11.37	11.37	11.37	11.37	11.37	11.37
Total Product Volume (gal)	45.49	45.49	45.49	45.49	45.49	45.49

Site 55						
3.64 ft avg depth, 2.63 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	14.36	14.36	14.36	14.36	14.36	14.36
AMP (gal)	2.39	2.39	2.39	2.39	2.39	2.39
Total Product Volume (gal)	16.75	16.75	16.75	16.75	16.75	16.75

Site 56						
4.26 ft avg depth, 1.27 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	8.12	8.12	8.12	8.12	8.12	8.12
AMP (gal)	2.71	2.71	2.71	2.71	2.71	2.71
Total Product Volume (gal)	10.83	10.83	10.83	10.83	10.83	10.83

Site 57						
1.41 ft avg depth, 1.12 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	2.37	2.37	2.37	2.37	2.37	2.37
AMP (gal)	0.79	0.79	0.79	0.79	0.79	0.79
Total Product Volume (gal)	3.16	3.16	3.16	3.16	3.16	3.16

Site 58						
6.44 ft avg depth, 4.42 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	21.35	21.35	21.35	21.35	21.35	21.35
AMP (gal)	14.23	14.23	14.23	14.23	14.23	14.23
Total Product Volume (gal)	35.58	35.58	35.58	35.58	35.58	35.58

Site 59						
6.05 ft avg depth, 2.88 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	13.07	13.07	13.07	13.07	13.07	13.07
AMP (gal)	8.71	8.71	8.71	8.71	8.71	8.71
Total Product Volume (gal)	21.78	21.78	21.78	21.78	21.78	21.78

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Site 60 (added in June)						
4.26 ft avg depth, 1.6 acres	4/19-4/21	5/17-5/18	6/14-6/15	7/19-7/22	8/16-8/17	9/13-9/14
Captain XTR (gal)	0	0	10.23	10.23	10.23	10.23
AMP (gal)	0	0	3.41	3.41	3.41	3.41
Total Product Volume (gal)	0	0	13.64	13.64	13.64	13.64

Product Totals	Per Treatment	2022 Total
Captain XTR	1853.52	11121.12
Cutrine Ultra	825	4950
AMP	701.4	4208.4

Inventory		# of totes/cubes	gallons
Captain XTR	Total Taken	41	11275
	Total Used	40.44	11121.12
	Remaining	0.56	153.88
Cutrine Ultra	Total Taken	18	4950
	Total Used	18	4950
	Remaining	0	0
AMP	Total Taken*	12	3960
*Totes	Total Used	12	3960
**Cubes	Remaining	0	0
	Total Taken**	50	250
	Total Used	49.68	248.4
	Remaining	0.32	1.6

Prepared on December 21, 2022
 By: Troy Goldsby / President
 Aqua Services, Inc.
 troyg@aquaservicesinc.com

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