Appendix A.2
Average transect length (Transect, in meters), buffer width (Buffer, in meters), percent canopy cover (Canopy), percent cover by trees (Trees), percent cover by shrubs (Shrubs), percent cover by herbs (Herbs) and percent bare (Bare).

| Site code | Transect | Buffer | Canopy | Trees | Shrubs | Herbs | Bare |
|---|---|---|---|---|---|---|---|
| ALE-01 | 70 | 13 | 1 | 68 | 13 | 23 | 23 |
| ALE-02 | 69 | 50 | 2 | 92 | 20 | 0 | 0 |
| CHA-01 | 21 | 48 | 60 | 79 | 19 | 26 | 0 |
| CHA-02 | 46 | 32 | 13 | 77 | 21 | 50 | 50 |
| CHA-03 | 22 | 26 | 28 | 64 | 30 | 41 | 0 |
| CYP-01 | 57 | 40 | 21 | 100 | 0 | 0 | 0 |
| FAN-01 | 41 | 8 | 50 | 46 | 30 | 25 | 35 |
| GAI-01 | 14 | 25 | 88 | 70 | 20 | 30 | 13 |
| GAI-02 | 25 | 26 | 36 | 31 | 44 | 20 | 12 |
| GUR-01 | 22 | 0 | 14 | 20 | 10 | 0 | 94 |
| HOM-01 | 37 | 7 | 7 | 81 | 33 | 11 | 30 |
| ICH-01 | 20 | 38 | 65 | 60 | 32 | 20 | 15 |
| ICH-02 | 25 | 40 | 49 | 71 | 43 | 34 | 7 |
| ICH-03 | 11 | 47 | 83 | 71 | 23 | 22 | 0 |
| ICH-04 | 19 | 50 | 31 | 72 | 48 | 18 | 5 |
| ICH-05 | 39 | 50 | 16 | 60 | 52 | 34 | 0 |
| ICH-06 | 18 | 50 | 83 | 79 | 60 | 28 | 0 |
| ICH-07 | 20 | 50 | 64 | 74 | 15 | 26 | 7 |
| ICH-08 | 21 | 50 | 73 | 72 | 14 | 14 | 32 |
| IND-01 | 27 | 7 | 40 | 66 | 0 | 0 | 85 |
| JAC-01 | 77 | 4 | 0 | 49 | 0 | 0 | 60 |
| JAC-02 | 175 | 27 | 0 | 89 | 15 | 40 | 10 |
| JAC-03 | 200 | 26 | 1 | 87 | 18 | 10 | 9 |
| JUN-01 | 17 | 2 | 66 | 50 | 20 | 45 | 65 |
| JUN-02 | 19 | 4 | 96 | 53 | 40 | 38 | 0 |
| JUN-03 | 8 | 50 | 90 | 63 | 21 | 36 | 0 |
| JUN-04 | 26 | 48 | 2 | 40 | 33 | 22 | 26 |
| LAF-01 | 18 | 1 | 70 | 20 | 14 | 0 | 66 |
| LTR-01 | 26 | 1 | 0 | 34 | 10 | 17 | 52 |
| MAD-01 | 16 | 1 | 72 | 28 | 0 | 10 | 66 |
| MNT-01 | 32 | 10 | 63 | 72 | 0 | 0 | 47 |
| PON-01 | 13 | 5 | 74 | 39 | 27 | 21 | 47 |
| RAI-01 | 45 | 26 | 3 | 82 | 35 | 0 | 0 |
| RAI-02 | 42 | 13 | 4 | 71 | 10 | 30 | 20 |
| RAI-03 | 44 | 4 | 7 | 71 | 40 | 34 | 42 |
| RAI-04 | 31 | 10 | 19 | 67 | 0 | 25 | 28 |
| SGL-01 | 95 | 4 | 0 | 56 | 14 | 29 | 14 |
| SLV-01 | 56 | 6 | 5 | 45 | 0 | 45 | 76 |
| SLV-02 | 49 | 12 | 6 | 68 | 15 | 35 | 50 |
| SLV-03 | 40 | 41 | 17 | 99 | 10 | 0 | 0 |
| SLV-04 | 35 | 50 | 14 | 98 | 20 | 0 | 0 |
| SLV-05 | 26 | 50 | 38 | 94 | 15 | 0 | 0 |
| TRY-01 | 48 | 11 | 7 | 36 | 40 | 10 | 22 |
| TUT-01 | 19 | 50 | 54 | 25 | 56 | 0 | 24 |
| VOL-01 | 23 | 24 | 58 | 72 | 35 | 25 | 40 |
| VOL-02 | 21 | 33 | 32 | 76 | 22 | 15 | 0 |
| WAC-01 | 47 | 31 | 11 | 94 | 20 | 20 | 10 |
| WAC-02 | 81 | 50 | 0 | 100 | 20 | 0 | 0 |

| Site code | Transect | Buffer | Canopy | Trees | Shrubs | Herbs | Bare |
|---|---|---|---|---|---|---|---|
| WAC-03 | 29 | 35 | 35 | 90 | 20 | 0 | 6 |
| WAK-01 | 76 | 10 | 0 | 84 | 10 | 50 | 23 |
| WAK-02 | 73 | 50 | 0 | 90 | 20 | 0 | 0 |
| WAK-03 | 78 | 50 | 0 | 90 | 20 | 0 | 0 |
| WEK-01 | 33 | 1 | 10 | 33 | 20 | 36 | 60 |
| WEK-02 | 35 | 4 | 16 | 50 | 26 | 31 | 30 |
| WEK-03 | 13 | 35 | 32 | 44 | 45 | 25 | 0 |
| WEK-04 | 20 | 10 | 29 | 35 | 15 | 8 | 48 |
| WGT-01 | 31 | 40 | 25 | 40 | 43 | 10 | 40 |
| WIL-01 | 11 | 12 | 100 | 76 | 24 | 0 | 0 |
| WKW-01 | 26 | 1 | 25 | 60 | 25 | 30 | 65 |
| WKW-02 | 54 | 50 | 5 | 90 | 20 | 0 | 0 |

Appendix A.3
Average current velocity (CV; 0 indicates 0-5 cm/s, 1 indicates 5-15 cm/s, 2 indicates 16-50 cm/s), average depth (Depth, in meters), number of boils encountered during sampling (Boils), and percent of points were high density of grazers was present (Grazers).

| | Fall | | | | Spring | | | |
|---|---|---|---|---|---|---|---|---|
| Site code | CV | Depth | Boils | Grazers | CV | Depth | Boils | Grazers |
| ALE-01 | 0.0 | 1.1 | 1 | 0.0 | 0.0 | 1.1 | 2 | 0.0 |
| ALE-02 | 0.0 | 0.9 | 0 | 0.0 | 0.0 | 1.0 | 0 | 0.0 |
| CHA-01 | 0.1 | 0.6 | 4 | 0.0 | 0.6 | 0.7 | 3 | 0.0 |
| CHA-02 | 0.0 | 1.3 | 1 | 0.0 | 0.0 | 1.0 | 1 | 0.0 |
| CHA-03 | 0.5 | 0.6 | 2 | 0.0 | 0.2 | 0.6 | 1 | 0.0 |
| CYP-01 | 0.0 | 1.6 | 1 | 64.2 | | | | |
| FAN-01 | 0.0 | 2.1 | 1 | 0.0 | | | | |
| GAI-01 | 1.0 | 1.4 | 1 | 23.6 | 1.5 | 1.4 | 1 | 6.7 |
| GAI-02 | 0.0 | 1.6 | 1 | 16.0 | 0.0 | 1.6 | 1 | 1.2 |
| GUR-01 | 0.0 | 1.5 | 1 | 0.0 | | | | |
| HOM-01 | 0.0 | 1.1 | 0 | 0.0 | 0.6 | 0.6 | 0 | 0.0 |
| ICH-01 | 0.2 | 1.4 | 1 | 0.0 | 0.3 | 1.1 | 1 | 0.0 |
| ICH-02 | 0.8 | 1.4 | 1 | 0.0 | 0.2 | 1.4 | 1 | 0.0 |
| ICH-03 | 1.4 | 1.3 | 0 | 6.2 | 1.2 | 1.3 | 0 | 23.5 |
| ICH-04 | 0.6 | 1.1 | 2 | 1.2 | 1.2 | 1.0 | 1 | 0.0 |
| ICH-05 | 0.7 | 1.2 | 6 | 2.5 | 1.0 | 1.1 | 2 | 0.0 |
| ICH-06 | 0.5 | 0.6 | 0 | 0.0 | 0.5 | 1.3 | 0 | 1.2 |
| ICH-07 | 1.4 | 1.5 | 0 | 0.0 | 0.5 | 2.2 | 0 | 3.7 |
| ICH-08 | 1.0 | 0.9 | 1 | 19.8 | 0.4 | 1.7 | 1 | 0.0 |
| IND-01 | 0.0 | 1.5 | 1 | 0.0 | | | | |
| JAC-01 | 0.3 | 1.7 | 1 | 0.0 | 0.3 | 1.9 | 1 | 0.0 |
| JAC-02 | 0.0 | 1.8 | 0 | 0.0 | 0.0 | 2.0 | 0 | 0.0 |
| JAC-03 | 0.0 | 2.0 | 0 | 0.0 | 0.0 | 2.2 | 0 | 0.0 |
| JUN-01 | 0.5 | 1.2 | 5 | 0.0 | 0.3 | 1.2 | 2 | 0.0 |
| JUN-02 | 0.0 | 1.6 | 11 | 0.0 | 0.0 | 1.3 | 12 | 0.0 |
| JUN-03 | 1.2 | 0.6 | 0 | 0.0 | 1.3 | 0.5 | 0 | 0.0 |
| JUN-04 | 1.3 | 0.3 | 0 | 0.0 | 1.2 | 0.3 | 0 | 0.0 |
| LAF-01 | 0.5 | 1.7 | 1 | 0.0 | | | | |
| LTR-01 | 0.0 | 1.5 | 1 | 0.0 | | | | |
| MAD-01 | 1.5 | 1.8 | 1 | 0.0 | | | | |
| MNT-01 | 0.6 | 1.7 | 1 | 0.0 | | | | |
| PON-01 | 0.3 | 1.0 | 2 | 28.4 | 0.0 | 1.3 | 1 | 0.0 |
| RAI-01 | 0.0 | 2.0 | 1 | 0.0 | 0.0 | 2.1 | 1 | 0.0 |
| RAI-02 | 0.0 | 2.2 | 1 | 0.0 | 0.0 | 2.3 | 4 | 0.0 |
| RAI-03 | 0.5 | 1.3 | 0 | 0.0 | 0.6 | 1.3 | 0 | 0.0 |
| RAI-04 | 0.6 | 2.3 | 0 | 1.2 | 0.6 | 2.4 | 0 | 0.0 |
| SGL-01 | 0.0 | 1.4 | 1 | 0.0 | 0.0 | 1.3 | 1 | 0.0 |
| SLV-01 | 0.0 | 2.8 | 2 | 0.0 | | 2.1 | 2 | 0.0 |
| SLV-02 | 0.0 | 2.2 | 0 | 0.0 | 1.3 | 1.7 | 2 | 0.0 |
| SLV-03 | 0.4 | 2.6 | 0 | 0.0 | 1.5 | 2.0 | 1 | 0.0 |
| SLV-04 | 0.8 | 2.4 | 0 | 0.0 | 1.2 | 1.8 | 0 | 1.2 |
| SLV-05 | 0.5 | 2.4 | 0 | 0.0 | 1.1 | 2.1 | 0 | 0.0 |
| TRY-01 | 0.0 | 3.9 | 1 | 0.0 | | | | |
| TUT-01 | 0.0 | 1.7 | 1 | 0.0 | | | | |
| VOL-01 | 0.9 | 1.4 | 1 | 0.0 | 0.6 | 1.5 | 3 | 0.0 |
| VOL-02 | 1.0 | 1.4 | 0 | 1.2 | 0.5 | 1.2 | 0 | 0.0 |
| WAC-01 | 0.2 | 1.5 | 3 | 0.0 | 0.3 | 1.5 | 1 | 0.0 |

| | Fall | | | | Spring | | | |
|---|---|---|---|---|---|---|---|---|
| Site code | CV | Depth | Boils | Grazers | CV | Depth | Boils | Grazers |
| WAC-02 | 0.5 | 1.2 | 0 | 0.0 | 0.6 | 1.4 | 0 | 0.0 |
| WAC-03 | 0.0 | 2.0 | 1 | 0.0 | 0.3 | 2.1 | 1 | 0.0 |
| WAK-01 | 0.0 | 5.1 | 1 | 1.2 | 1.0 | 3.8 | 1 | 1.2 |
| WAK-02 | 0.5 | 1.1 | 0 | 0.0 | | 1.1 | 0 | 0.0 |
| WAK-03 | 0.6 | 0.7 | 0 | 0.0 | | 0.8 | 0 | 0.0 |
| WEK-01 | 0.2 | 2.4 | 1 | 4.9 | 0.7 | 2.0 | 1 | 2.5 |
| WEK-02 | 1.0 | 1.3 | 0 | 3.7 | 0.8 | 1.1 | 0 | 0.0 |
| WEK-03 | 1.9 | 1.4 | 0 | 0.0 | 1.8 | 1.1 | 0 | 0.0 |
| WEK-04 | 0.0 | 1.6 | 0 | 0.0 | 0.6 | 1.3 | 0 | 0.0 |
| WGT-01 | 0.0 | 1.6 | 1 | 4.9 | | | | |
| WIL-01 | 0.7 | 0.9 | 1 | 8.6 | | | | |
| WKW-01 | 0.3 | 1.1 | 1 | 0.0 | 0.1 | 1.4 | 1 | 0.0 |
| WKW-02 | 0.1 | 1.9 | 0 | 0.0 | 0.1 | 2.1 | 0 | 0.0 |

Appendix A.4
Percent of different substrata found in the fall and in the spring (C – coarse particular organic matter, F-fine particular organic matter, H- shells, L – gyttja, R – rock, S – sand, W – wood).

| | Fall | | | | | | Spring | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site code | C | F | L | R | S | W | C | F | H | L | R | S | W |
| ALE-01 | 2 | 26 | 0 | 2 | 100 | 0 | 0 | 27 | 0 | 0 | 1 | 86 | 0 |
| ALE-02 | 9 | 21 | 0 | 0 | 86 | 1 | 0 | 21 | 7 | 0 | 0 | 80 | 0 |
| CHA-01 | 21 | 27 | 0 | 48 | 49 | 4 | 9 | 30 | 0 | 0 | 48 | 33 | 0 |
| CHA-02 | 37 | 75 | 0 | 5 | 30 | 0 | 4 | 60 | 0 | 0 | 2 | 36 | 2 |
| CHA-03 | 0 | 0 | 0 | 41 | 63 | 0 | 0 | 56 | 0 | 0 | 25 | 16 | 0 |
| CYP-01 | 4 | 1 | 0 | 6 | 84 | 1 | | | | | | | |
| FAN-01 | 40 | 2 | 0 | 5 | 95 | 0 | | | | | | | |
| GAI-01 | 0 | 0 | 0 | 38 | 64 | 1 | 2 | 2 | 0 | 0 | 52 | 69 | 2 |
| GAI-02 | 15 | 16 | 0 | 0 | 91 | 0 | 19 | 23 | 0 | 0 | 5 | 90 | 0 |
| GUR-01 | 12 | 78 | 0 | 0 | 83 | 1 | | | | | | | |
| HOM-01 | 16 | 9 | 0 | 0 | 98 | 0 | 0 | 14 | 0 | 0 | 0 | 100 | 0 |
| ICH-01 | 5 | 20 | 0 | 5 | 95 | 1 | 42 | 27 | 0 | 0 | 4 | 68 | 2 |
| ICH-02 | 0 | 80 | 0 | 2 | 54 | 2 | 19 | 70 | 0 | 0 | 2 | 56 | 0 |
| ICH-03 | 9 | 17 | 0 | 11 | 88 | 0 | 0 | 13 | 0 | 0 | 31 | 71 | 0 |
| ICH-04 | 17 | 37 | 0 | 11 | 65 | 0 | 0 | 60 | 0 | 0 | 21 | 47 | 1 |
| ICH-05 | 7 | 64 | 0 | 2 | 56 | 0 | 0 | 85 | 0 | 0 | 2 | 77 | 0 |
| ICH-06 | 74 | 9 | 0 | 12 | 65 | 6 | 11 | 52 | 0 | 6 | 0 | 68 | 0 |
| ICH-07 | 5 | 16 | 1 | 1 | 83 | 7 | 14 | 80 | 1 | 0 | 1 | 49 | 4 |
| ICH-08 | 22 | 11 | 0 | 43 | 49 | 5 | 40 | 23 | 21 | 0 | 23 | 1 | 1 |
| IND-01 | 22 | 84 | 0 | 9 | 37 | 0 | | | | | | | |
| JAC-01 | 4 | 1 | 0 | 4 | 100 | 0 | 0 | 0 | 0 | 0 | 4 | 100 | 0 |
| JAC-02 | 1 | 93 | 0 | 0 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| JAC-03 | 0 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 |
| JUN-01 | 10 | 1 | 0 | 2 | 95 | 2 | 1 | 0 | 0 | 0 | 21 | 77 | 2 |
| JUN-02 | 35 | 33 | 2 | 0 | 75 | 4 | 17 | 33 | 0 | 0 | 0 | 63 | 1 |
| JUN-03 | 37 | 30 | 0 | 0 | 84 | 6 | 20 | 22 | 0 | 0 | 0 | 78 | 5 |
| JUN-04 | 6 | 22 | 0 | 0 | 100 | 0 | 7 | 6 | 0 | 0 | 0 | 96 | 0 |
| LAF-01 | 30 | 16 | 0 | 20 | 80 | 1 | | | | | | | |
| LTR-01 | 1 | 27 | 0 | 7 | 95 | 2 | | | | | | | |
| MAD-01 | 9 | 0 | 1 | 75 | 33 | 4 | | | | | | | |
| MNT-01 | 68 | 6 | 0 | 4 | 94 | 1 | | | | | | | |
| PON-01 | 20 | 14 | 0 | 5 | 95 | 1 | 26 | 0 | 0 | 0 | 7 | 99 | 0 |
| RAI-01 | 0 | 69 | 0 | 2 | 96 | 0 | 0 | 7 | 0 | 0 | 2 | 32 | 0 |
| RAI-02 | 4 | 9 | 0 | 15 | 83 | 1 | 0 | 7 | 0 | 0 | 21 | 21 | 1 |
| RAI-03 | 1 | 1 | 0 | 6 | 98 | 2 | 0 | 0 | 0 | 0 | 2 | 22 | 0 |
| RAI-04 | 0 | 11 | 0 | 1 | 90 | 4 | 2 | 6 | 0 | 0 | 0 | 49 | 1 |
| SGL-01 | 0 | 0 | 0 | 0 | 99 | 0 | 0 | 1 | 0 | 0 | 0 | 94 | 0 |
| SLV-01 | 1 | 63 | 0 | 6 | 93 | 0 | 0 | 44 | 0 | 0 | 2 | 46 | 1 |
| SLV-02 | 2 | 100 | 0 | 0 | 100 | 0 | 4 | 48 | 0 | 0 | 1 | 12 | 0 |
| SLV-03 | 10 | 93 | 0 | 0 | 94 | 0 | 4 | 26 | 0 | 0 | 0 | 10 | 6 |
| SLV-04 | 10 | 81 | 0 | 0 | 89 | 0 | 0 | 22 | 0 | 0 | 0 | 22 | 0 |
| SLV-05 | 9 | 54 | 0 | 0 | 77 | 0 | 1 | 10 | 0 | 0 | 0 | 52 | 0 |
| TRY-01 | 41 | 19 | 0 | 30 | 54 | 1 | | | | | | | |
| TUT-01 | 51 | 31 | 4 | 5 | 62 | 12 | | | | | | | |
| VOL-01 | 7 | 0 | 0 | 54 | 84 | 17 | 5 | 0 | 0 | 0 | 63 | 60 | 15 |
| VOL-02 | 26 | 0 | 0 | 10 | 89 | 14 | 6 | 1 | 0 | 0 | 15 | 73 | 20 |
| WAC-01 | 4 | 20 | 0 | 10 | 70 | 0 | 0 | 12 | 0 | 0 | 1 | 35 | 2 |
| WAC-02 | 0 | 86 | 0 | 0 | 36 | 0 | 0 | 20 | 0 | 0 | 2 | 16 | 0 |

| | Fall | | | | | | Spring | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site code | C | F | L | R | S | W | C | F | H | L | R | S | W |
| WAC-03 | 4 | 54 | 0 | 5 | 35 | 4 | 2 | 16 | 0 | 0 | 36 | 19 | 1 |
| WAK-01 | 0 | 0 | 0 | 4 | 67 | 0 | 0 | 1 | 0 | 0 | 0 | 47 | 0 |
| WAK-02 | 0 | 0 | 2 | 4 | 95 | 0 | 0 | 1 | 0 | 0 | 0 | 62 | 0 |
| WAK-03 | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 |
| WEK-01 | 0 | 43 | 0 | 5 | 70 | 0 | 0 | 12 | 0 | 0 | 9 | 58 | 0 |
| WEK-02 | 5 | 23 | 0 | 2 | 98 | 0 | 0 | 25 | 0 | 0 | 2 | 93 | 0 |
| WEK-03 | 1 | 11 | 5 | 0 | 95 | 0 | 0 | 2 | 0 | 0 | 0 | 100 | 0 |
| WEK-04 | 17 | 16 | 0 | 23 | 70 | 5 | 9 | 17 | 0 | 0 | 5 | 73 | 1 |
| WGT-01 | 6 | 68 | 0 | 1 | 67 | 0 | | | | | | | |
| WIL-01 | 14 | 11 | 0 | 2 | 88 | 5 | | | | | | | |
| WKW-01 | 10 | 2 | 0 | 4 | 95 | 1 | 4 | 2 | 0 | 0 | 11 | 90 | 0 |
| WKW-02 | 32 | 95 | 0 | 0 | 16 | 1 | 19 | 16 | 0 | 0 | 0 | 14 | 0 |

Appendix A.5
Water conductivity (µS/cm), DO (mg/L), pH and temperature (°C) during fall and spring sampling.

| | Fall | | | | Spring | | | |
|---|---|---|---|---|---|---|---|---|
| Site code | Conductivity | DO | pH | Temperature | Conductivity | DO | pH | Temperature |
| ALE-01 | 1120.5 | 1.43 | 7.83 | 23.355 | 1018.5 | 5.71 | 7.965 | 23.62 |
| ALE-02 | 549.62 | 2.84 | 8.01 | 23.34 | 1003 | 4.535 | 8.07 | 23.87 |
| CHA-01 | 580 | 5.27 | 7.485 | 23.04 | 452 | 6.38 | 7.055 | 22.5 |
| CHA-02 | 720.5 | 5.96 | 7.585 | 23.3 | 607.5 | 7.475 | 7.465 | 22.705 |
| CHA-03 | 3872.5 | 5.205 | 7.56 | 23.26 | 3241.5 | 5.425 | 7.19 | 23.03 |
| CYP-01 | 314 | 5.155 | 7.46 | 20.7 | | | | |
| FAN-01 | 481.5 | 2.045 | 7.13 | 22.38 | | | | |
| GAI-01 | 197 | 2.47 | 8.115 | 21.475 | 113 | 2.825 | 8.105 | 21.255 |
| GAI-02 | 207.5 | 2.535 | 8.04 | 21.3 | 122 | 2.705 | 8.23 | 21.745 |
| GUR-01 | 375 | 1.62 | 7.245 | 22.16 | | | | |
| HOM-01 | 2410 | 4.79 | 7.825 | 23.46 | 2394 | 4.99 | 7.335 | 23.34 |
| ICH-01 | 323.5 | 3.765 | 7.56 | 21.68 | 183 | 4.29 | 7.525 | 21.55 |
| ICH-02 | 304 | 1.875 | 7.7 | 21.635 | 174 | 2.2 | 7.65 | 21.63 |
| ICH-03 | 315.5 | 3.345 | 7.755 | 21.44 | 179.5 | 4.725 | 7.645 | 21.965 |
| ICH-04 | 319 | 0.61 | 7.665 | 21.64 | 325 | 2.935 | 7.55 | 21.84 |
| ICH-05 | 322 | 1.785 | 7.725 | 21.655 | 340.5 | 2.63 | 7.535 | 22.2 |
| ICH-06 | 378.5 | 0.63 | 7.675 | 21.81 | 369.5 | 4.315 | 7.735 | 22.265 |
| ICH-07 | 326.5 | 5.48 | 7.74 | 21.615 | 340 | 4.275 | 7.47 | 20.39 |
| ICH-08 | 306.5 | 4.265 | 7.83 | 22.005 | 263 | 3.26 | 7.48 | 21.64 |
| IND-01 | 499 | 3.755 | 7.65 | 21.605 | | | | |
| JAC-01 | 424 | 7.585 | 7.535 | 20.615 | 235.5 | 7.585 | 7.41 | 20.56 |
| JAC-02 | 248 | 9.985 | 7.93 | 22.255 | 244 | 8.615 | 7.69 | 21.175 |
| JAC-03 | 246.5 | 8.35 | 7.885 | 23.23 | 245.5 | 10.27 | 8.06 | 16.875 |
| JUN-01 | 113.5 | 7.425 | 8.335 | 21.855 | 110 | 8.995 | 8.585 | 22 |
| JUN-02 | 142.5 | 5.96 | 8.16 | 21.87 | 112 | 6.55 | 8.3 | 21.74 |
| JUN-03 | 124.5 | 7.19 | 7.75 | 21.5 | 114 | 7.67 | 8.185 | 21.995 |
| JUN-04 | 1774.5 | 6.99 | 7.765 | 22.615 | 1624.5 | 7.745 | 7.875 | 22.35 |
| LAF-01 | 447 | 1.12 | 7.13 | 21.39 | | | | |
| LTR-01 | 362.5 | 1.19 | 7.31 | 21.8 | | | | |
| MAD-01 | 287.5 | 2.03 | 7.56 | 21.005 | | | | |
| MNT-01 | 482.5 | 1.86 | 7.25 | 22.255 | | | | |
| PON-01 | 262.5 | 4.015 | 7.385 | 20.06 | 171 | 5.565 | 7.88 | 20.295 |
| RAI-01 | 190.5 | 7.035 | 7.99 | 23.185 | 147.5 | 8.22 | 7.72 | 23.08 |
| RAI-02 | 257.5 | 7.725 | 7.93 | 23.41 | 203.5 | 9.12 | 7.68 | 23.415 |
| RAI-03 | 263.5 | 8.015 | 7.91 | 23.145 | 214.5 | 10.365 | 7.96 | 23.075 |
| RAI-04 | 266 | 6.38 | 7.695 | 22.67 | 219 | 8.375 | 7.485 | 22.34 |
| SGL-01 | 1925.5 | 3.55 | 8.03 | 23.1 | 1715 | 4.48 | 7.935 | 23.16 |
| SLV-01 | 470 | 2.405 | 7.28 | 23.135 | 404.5 | 3.005 | 7.065 | 23.225 |
| SLV-02 | 476.5 | 3.29 | 7.335 | 23.29 | 386 | 4.14 | 7.07 | 23.305 |
| SLV-03 | 449 | 4.32 | 7.43 | 23.4 | | | | |
| SLV-04 | 448 | 5.025 | 7.44 | 23.305 | | | | |
| SLV-05 | 447 | 5.405 | 7.49 | 23.205 | | | | |
| TRY-01 | 373 | 0.27 | 7.3 | 21.175 | | | | |
| TUT-01 | 403.5 | 0.805 | 7.19 | 21.315 | | | | |
| VOL-01 | 1380 | 0.565 | 7.395 | 22.955 | 1075 | 0.855 | 7.28 | 22.86 |
| VOL-02 | 1377.5 | 0.85 | 7.535 | 23.005 | 1061.5 | 2.045 | 7.315 | 22.9 |
| WAC-01 | 258.5 | 3.02 | 7.485 | 20.895 | 213 | 3.835 | 7.705 | 20.31 |

| | Fall | | | | Spring | | | |
|---|---|---|---|---|---|---|---|---|
| Site code | Conductivity | DO | pH | Temperature | Conductivity | DO | pH | Temperature |
| WAC-02 | 257.5 | 8.11 | 7.985 | 22.535 | 220.5 | 5.525 | 7.585 | 20.885 |
| WAC-03 | 326 | 1.83 | 7.425 | 20.74 | 259 | 2.32 | 7.465 | 20.25 |
| WAK-01 | 308.5 | 2.33 | 7.47 | 20.68 | 243.5 | 3 | 7.55 | 20.435 |
| WAK-02 | 308.5 | 4.44 | 7.645 | 20.54 | 244 | 5.845 | 7.58 | 20.445 |
| WAK-03 | 301 | 9.49 | 7.945 | 20.7 | 244 | 4.765 | 7.615 | 20.46 |
| WEK-01 | 311.5 | 2.225 | 7.825 | 23.62 | 199 | 2.63 | 7.335 | 23.6 |
| WEK-02 | 310.5 | 2.39 | 7.815 | 23.65 | 195.5 | 3.04 | 7.625 | 23.795 |
| WEK-03 | 310.5 | 4.74 | 7.72 | 23.675 | 191.5 | 6.97 | 7.75 | 24.685 |
| WEK-04 | 530.5 | 5.365 | 7.855 | 23.685 | 374 | 7.09 | 7.93 | 24.01 |
| WGT-01 | 201 | 3.335 | 7.96 | 20.71 | | | | |
| WIL-01 | 224 | 1.43 | 8.05 | 21.47 | | | | |
| WKW-01 | 343.5 | 0.62 | 7.39 | 23.705 | 308.5 | 1.045 | 7.26 | 23.59 |
| WKW-02 | 340.5 | 1.67 | 7.46 | 23.93 | 293.5 | 1.855 | 7.28 | 23.365 |

Appendix A.6
Water chemistry measurements from fall sampling (all concentrations in mg/L).

| Site code | Alkalinity | Ammonia-N | Calcium | Chloride | Iron | Magnesium | Kjeldahl N | $NO_x$ | O-Phosphate-P | Silica | Sodium | Strontium | Sulfate | TOTALN | TOTALP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALE-01 | 80 | 0.010 | 46.3 | 260.0 | 0.010 | 20.6 | 0.110 | 0.074 | 0.058 | 8.8 | 141.00 | 0.766 | 66.0 | 0.184 | 0.058 |
| ALE-02 | 80 | 0.010 | 46.4 | 260.0 | 0.010 | 20.8 | 0.084 | 0.069 | 0.053 | 8.9 | 141.00 | 0.769 | 67.0 | 0.153 | 0.057 |
| CHA-01 | 145 | 0.010 | 52.6 | 99.0 | 0.010 | 15.1 | 0.062 | 0.610 | 0.021 | 9.1 | 58.90 | 0.203 | 19.0 | 0.672 | 0.032 |
| CHA-02 | 145 | 0.010 | 52.4 | 120.0 | 0.018 | 14.2 | 0.130 | 0.540 | 0.021 | 9.1 | 50.30 | 0.185 | 21.0 | 0.670 | 0.024 |
| CHA-03 | 144 | 0.015 | 75.6 | 1100.0 | 0.189 | 78.5 | 0.130 | 0.620 | 0.021 | 9.0 | 589.00 | 0.721 | 150.0 | 0.750 | 0.029 |
| CYP-01 | 103 | 0.010 | 34.9 | 4.3 | 0.010 | 4.9 | 0.060 | 0.340 | 0.026 | 9.6 | 3.17 | 0.046 | 1.4 | 0.400 | 0.027 |
| FAN-01 | 189 | 0.010 | 83.8 | 11.0 | 0.011 | 6.0 | 0.060 | 5.600 | 0.065 | 6.4 | 5.07 | 0.091 | 22.0 | 5.660 | 0.063 |
| GAI-01 | 52 | 0.010 | 17.5 | 2.8 | 0.026 | 2.5 | 0.060 | 0.230 | 0.015 | 5.5 | 1.55 | 0.047 | 2.5 | 0.290 | 0.020 |
| GAI-02 | 55 | 0.010 | 18.6 | 3.5 | 0.010 | 3.1 | 0.060 | 0.200 | 0.012 | 5.9 | 1.86 | 0.048 | 2.2 | 0.260 | 0.020 |
| GUR-01 | 174 | 0.010 | 70.8 | 6.9 | 0.161 | 4.1 | 0.076 | 1.200 | 0.010 | 5.4 | 3.31 | 0.166 | 7.5 | 1.276 | 0.027 |
| HOM-01 | 106 | 0.011 | 51.5 | 630.0 | 0.110 | 49.0 | 0.140 | 0.540 | 0.025 | 8.4 | 357.00 | 0.465 | 92.0 | 0.680 | 0.026 |
| ICH-01 | 154 | 0.010 | 56.7 | 4.1 | 0.010 | 6.1 | 0.060 | 0.780 | 0.026 | 7.1 | 2.39 | 0.164 | 8.5 | 0.840 | 0.022 |
| ICH-02 | 146 | 0.010 | 54.0 | 4.9 | 0.010 | 5.5 | 0.060 | 0.660 | 0.054 | 9.7 | 3.24 | 0.095 | 5.0 | 0.720 | 0.047 |
| ICH-03 | 148 | 0.010 | 52.0 | 5.0 | 0.010 | 5.3 | 0.060 | 0.650 | 0.048 | 9.4 | 3.14 | 0.090 | 5.0 | 0.710 | 0.047 |
| ICH-04 | 148 | 0.010 | 52.5 | 6.2 | 0.010 | 7.2 | 0.060 | 0.440 | 0.060 | 12.0 | 4.38 | 0.150 | 11.0 | 0.500 | 0.057 |
| ICH-05 | 146 | 0.010 | 51.7 | 6.3 | 0.010 | 7.0 | 0.060 | 0.430 | 0.059 | 12.0 | 4.21 | 0.143 | 11.0 | 0.490 | 0.055 |
| ICH-06 | 146 | 0.010 | 57.6 | 9.3 | 0.010 | 10.4 | 0.060 | 0.220 | 0.057 | 13.0 | 6.04 | 0.383 | 37.0 | 0.280 | 0.055 |
| ICH-07 | 148 | 0.010 | 54.2 | 6.3 | 0.068 | 7.1 | 0.060 | 0.430 | 0.081 | 11.0 | 4.02 | 0.181 | 14.0 | 0.490 | 0.062 |
| ICH-08 | 135 | 0.010 | 51.5 | 3.6 | 0.010 | 4.8 | 0.060 | 0.590 | 0.028 | 6.1 | 2.15 | 0.092 | 10.0 | 0.650 | 0.029 |
| IND-01 | 133 | 0.010 | 40.9 | 6.8 | 0.034 | 10.1 | 0.082 | 0.480 | 0.035 | 11.0 | 4.21 | 0.081 | 8.0 | 0.562 | 0.043 |
| JAC-01 | 106 | 0.010 | 45.7 | 4.6 | 0.010 | 2.2 | 0.060 | 3.200 | 0.021 | 7.2 | 1.83 | 0.038 | 1.3 | 3.260 | 0.031 |
| JAC-02 | 108 | 0.042 | 45.5 | 4.5 | 0.016 | 2.3 | 0.079 | 2.900 | 0.018 | 7.0 | 1.85 | 0.041 | 1.2 | 2.979 | 0.022 |
| JAC-03 | 108 | 0.031 | 44.8 | 4.5 | 0.028 | 2.5 | 0.120 | 2.400 | 0.006 | 7.3 | 1.92 | 0.044 | 1.3 | 2.520 | 0.020 |
| JUN-01 | 45 | 0.010 | 13.5 | 4.3 | 0.010 | 4.5 | 0.060 | 0.110 | 0.027 | 8.4 | 2.69 | 0.079 | 5.5 | 0.170 | 0.030 |
| JUN-02 | 44 | 0.010 | 13.0 | 4.2 | 0.010 | 4.5 | 0.060 | 0.120 | 0.027 | 8.6 | 2.66 | 0.077 | 5.2 | 0.180 | 0.025 |
| JUN-03 | 44 | 0.010 | 14.3 | 4.4 | 0.021 | 5.1 | 0.060 | 0.100 | 0.028 | 8.8 | 2.72 | 0.130 | 11.0 | 0.160 | 0.035 |
| JUN-04 | 55 | 0.011 | 55.6 | 440.0 | 0.041 | 30.1 | 0.240 | 0.048 | 0.024 | 8.6 | 248.00 | 1.150 | 120.0 | 0.288 | 0.026 |
| LAF-01 | 197 | 0.010 | 73.5 | 8.2 | 0.048 | 10.9 | 0.140 | 2.900 | 0.052 | 6.6 | 4.62 | 0.105 | 13.0 | 3.040 | 0.054 |
| LTR-01 | 164 | 0.010 | 66.2 | 5.7 | 0.041 | 8.2 | 0.070 | 1.100 | 0.026 | 7.3 | 2.86 | 0.231 | 23.0 | 1.170 | 0.029 |
| MAD-01 | 120 | 0.010 | 42.6 | 5.9 | 0.016 | 8.7 | 0.360 | 1.700 | 0.051 | 9.6 | 3.42 | 0.052 | 12.0 | 2.06 | 0.037 |
| MNT-01 | 196 | 0.010 | 88.5 | 8.7 | 0.068 | 6.8 | 0.066 | 1.800 | 0.024 | 6.0 | 4.20 | 0.214 | 40.0 | 1.866 | 0.034 |
| PON-01 | 104 | 0.010 | 31.6 | 2.6 | 0.031 | 7.7 | 0.060 | 0.280 | 0.048 | 9.3 | 1.69 | 0.053 | 2.7 | 0.340 | 0.024 |
| RAI-01 | 63 | 0.010 | 24.1 | 4.2 | 0.010 | 3.7 | 0.060 | 1.300 | 0.039 | 6.8 | 2.45 | 0.058 | 4.6 | 1.360 | 0.041 |
| RAI-02 | 109 | 0.010 | 41.8 | 5.5 | 0.010 | 5.2 | 0.060 | 1.100 | 0.046 | 6.9 | 2.90 | 0.150 | 13.0 | 1.160 | 0.039 |

| Site code | Alkalinity | Ammonia-N | Calcium | Chloride | Iron | Magnesium | Kjeldahl N | $NO_x$ | O-Phosphate-P | Silica | Sodium | Strontium | Sulfate | TOTALN | TOTALP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAI-03 | 109 | 0.010 | 43.9 | 5.6 | 0.010 | 5.3 | 0.060 | 1.000 | 0.046 | 6.8 | 3.06 | 0.181 | 14.0 | 1.060 | 0.048 |
| RAI-04 | 111 | 0.018 | 44.6 | 5.7 | 0.010 | 5.3 | 0.060 | 1.000 | 0.039 | 6.7 | 3.10 | 0.185 | 15.0 | 1.060 | 0.055 |
| SGL-01 | 66 | 0.010 | 72.8 | 470.0 | 0.010 | 35.7 | 0.088 | 0.070 | 0.032 | 9.1 | 266.00 | 1.530 | 170.0 | 0.158 | 0.043 |
| SLV-01 | 188 | 0.010 | 79.4 | 11.0 | 0.010 | 10.2 | 0.060 | 1.100 | 0.046 | 11.0 | 6.49 | 0.596 | 41.0 | 1.160 | 0.055 |
| SLV-02 | 179 | 0.010 | 79.8 | 11.0 | 0.010 | 11.1 | 0.060 | 1.200 | 0.051 | 11.0 | 6.50 | 0.718 | 58.0 | 1.260 | 0.048 |
| SLV-03 | 167 | 0.010 | 73.3 | 11.0 | 0.010 | 10.4 | 0.060 | 1.200 | 0.044 | 10.0 | 6.44 | 0.645 | 50.0 | 1.260 | 0.053 |
| SLV-04 | 169 | 0.010 | 73.3 | 11.0 | 0.010 | 10.4 | 0.060 | 1.100 | 0.045 | 10.0 | 6.43 | 0.636 | 49.0 | 1.160 | 0.057 |
| SLV-05 | 166 | 0.010 | 72.6 | 11.0 | 0.014 | 10.2 | 0.067 | 1.100 | 0.044 | 11.0 | 6.37 | 0.633 | 49.0 | 1.167 | 0.058 |
| TRY-01 | 163 | 0.010 | 63.5 | 6.0 | 0.011 | 7.5 | 0.120 | 2.400 | 0.035 | 6.9 | 3.34 | 0.083 | 12.0 | 2.520 | 0.034 |
| TUT-01 | 191 | 0.010 | 77.1 | 6.0 | 0.058 | 4.7 | 0.110 | 0.740 | 0.018 | 6.0 | 3.05 | 0.094 | 6.8 | 0.850 | 0.029 |
| VOL-01 | 139 | 0.018 | 63.0 | 310.0 | 0.012 | 21.6 | 0.270 | 0.610 | 0.068 | 8.6 | 172.00 | 0.774 | 51.0 | 0.880 | 0.069 |
| VOL-02 | 138 | 0.010 | 62.9 | 320.0 | 0.011 | 21.5 | 0.260 | 0.610 | 0.069 | 8.7 | 171.00 | 0.773 | 51.0 | 0.870 | 0.069 |
| WAC-01 | 124 | 0.010 | 40.3 | 5.6 | 0.059 | 7.9 | 0.100 | 0.370 | 0.038 | 14.0 | 3.30 | 0.070 | 5.3 | 0.470 | 0.046 |
| WAC-02 | 120 | 0.010 | 39.1 | 5.3 | 0.078 | 7.7 | 0.130 | 0.260 | 0.033 | 14.0 | 3.23 | 0.074 | 5.2 | 0.390 | 0.037 |
| WAC-03 | 157 | 0.010 | 52.8 | 5.8 | 0.050 | 8.1 | 0.060 | 0.180 | 0.050 | 13.0 | 3.35 | 0.081 | 6.6 | 0.240 | 0.054 |
| WAK-01 | 141 | 0.010 | 45.5 | 8.1 | 0.010 | 10.7 | 0.060 | 0.860 | 0.039 | 11.0 | 5.50 | 0.094 | 9.7 | 0.920 | 0.050 |
| WAK-02 | 142 | 0.010 | 46.2 | 8.2 | 0.010 | 10.8 | 0.064 | 0.790 | 0.029 | 11.0 | 5.57 | 0.098 | 9.9 | 0.854 | 0.037 |
| WAK-03 | 142 | 0.010 | 46.5 | 7.9 | 0.010 | 10.8 | 0.082 | 0.650 | 0.020 | 10.0 | 5.47 | 0.096 | 9.2 | 0.732 | 0.030 |
| WEK-01 | 136 | 0.010 | 51.6 | 7.3 | 0.010 | 6.1 | 0.060 | 0.80 | 0.013 | 8.6 | 4.32 | 0.186 | 9.5 | 0.860 | 0.020 |
| WEK-02 | 136 | 0.010 | 51.5 | 7.4 | 0.010 | 6.1 | 0.060 | 0.790 | 0.011 | 8.6 | 4.29 | 0.183 | 9.6 | 0.850 | 0.020 |
| WEK-03 | 135 | 0.010 | 51.5 | 7.3 | 0.013 | 6.0 | 0.060 | 0.730 | 0.013 | 8.5 | 4.28 | 0.185 | 9.5 | 0.790 | 0.032 |
| WEK-04 | 137 | 0.018 | 54.8 | 57.0 | 0.054 | 9.1 | 0.150 | 0.70 | 0.009 | 8.4 | 32.40 | 0.218 | 16.0 | 0.850 | 0.020 |
| WGT-01 | 52 | 0.010 | 17.1 | 2.2 | 0.019 | 2.9 | 0.060 | 0.160 | 0.013 | 5.3 | 1.25 | 0.062 | 2.2 | 0.220 | 0.020 |
| WIL-01 | 61 | 0.010 | 21.2 | 2.8 | 0.019 | 2.8 | 0.060 | 0.068 | 0.016 | 6.3 | 1.55 | 0.050 | 1.5 | 0.128 | 0.020 |
| WKW-01 | 125 | 0.010 | 39.2 | 17.0 | 0.025 | 11.1 | 0.150 | 1.600 | 0.110 | 9.4 | 9.73 | 0.132 | 21.0 | 1.750 | 0.160 |

Water chemistry measurements from spring sampling (all concentrations in mg/L).

| Site code | Alkalinity | Ammonia-N | Calcium | Chloride | Magnesium | Kjeldahl N | NOx | O-Phosphate-P | Silica | Sodium | Strontium | Sulfate | TOTALN | TOTALP | Potassium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALE-01 | 81 | 0.014 | 49.6 | 280.0 | 22.2 | 0.160 | 0.037 | 0.051 | 9.5 | 151.00 | 0.803 | 70.0 | 0.197 | 0.073 | 4.40 |
| ALE-02 | 82 | 0.011 | 49.0 | 260.0 | 22.0 | 0.120 | 0.024 | 0.045 | 9.4 | 148.00 | 0.802 | 69.0 | 0.144 | 0.063 | 4.30 |
| CHA-01 | 149 | 0.023 | 51.2 | 79.0 | 13.7 | 0.060 | 0.510 | 0.015 | 9.7 | 45.70 | 0.180 | 18.0 | 0.570 | 0.032 | 1.60 |
| CHA-02 | 149 | 0.010 | 52.1 | 120.0 | 16.0 | 0.120 | 0.420 | 0.018 | 9.6 | 67.80 | 0.200 | 23.0 | 0.540 | 0.040 | 2.40 |
| CHA-03 | 152 | 0.041 | 79.6 | 1200.0 | 85.4 | 0.090 | 0.540 | 0.018 | 9.7 | 637.00 | 0.767 | 170.0 | 0.630 | 0.040 | 23.8 |
| GAI-01 | 52 | 0.010 | 18.1 | 2.5 | 2.6 | 0.060 | 0.240 | 0.012 | 5.2 | 1.65 | 0.045 | 2.2 | 0.300 | 0.015 | 0.25 |
| GAI-02 | 56 | 0.016 | 19.0 | 3.0 | 3.2 | 0.060 | 0.200 | 0.011 | 5.6 | 1.96 | 0.048 | 1.9 | 0.260 | 0.015 | 0.26 |
| HOM-01 | 112 | 0.019 | 56.1 | 770.0 | 56.2 | 0.087 | 0.560 | 0.028 | 9.2 | 440.00 | 0.516 | 110.0 | 0.647 | 0.045 | 15.2 |
| ICH-01 | 153 | 0.010 | 57.5 | 4.2 | 6.0 | 0.060 | 0.800 | 0.022 | 6.9 | 2.30 | 0.162 | 9.0 | 0.860 | 0.032 | 0.16 |
| ICH-02 | 146 | 0.010 | 53.9 | 5.2 | 5.6 | 0.060 | 0.620 | 0.051 | 9.9 | 3.20 | 0.095 | 6.3 | 0.680 | 0.051 | 0.39 |
| ICH-03 | 152 | 0.010 | 57.2 | 4.5 | 5.9 | 0.060 | 0.770 | 0.028 | 7.7 | 2.50 | 0.148 | 9.0 | 0.830 | 0.039 | 0.21 |
| ICH-04 | 143 | 0.018 | 52.5 | 6.9 | 8.3 | 0.060 | 0.230 | 0.062 | 13.0 | 5.20 | 0.186 | 18.0 | 0.290 | 0.056 | 0.62 |
| ICH-05 | 143 | 0.016 | 56.3 | 8.8 | 10.1 | 0.061 | 0.190 | 0.058 | 14.0 | 6.31 | 0.288 | 29.0 | 0.251 | 0.057 | 0.68 |
| ICH-06 | 143 | 0.026 | 62.0 | 11.0 | 11.6 | 0.074 | 0.070 | 0.056 | 14.0 | 7.76 | 0.439 | 48.0 | 0.144 | 0.053 | 0.69 |
| ICH-07 | 149 | 0.018 | 56.8 | 6.8 | 7.9 | 0.079 | 0.260 | 0.046 | 11.0 | 4.82 | 0.207 | 19.0 | 0.339 | 0.053 | 0.49 |
| ICH-08 | 127 | 0.038 | 50.8 | 3.7 | 4.2 | 0.130 | 0.630 | 0.027 | 6.3 | 2.32 | 0.090 | 9.0 | 0.760 | 0.031 | 0.22 |
| JAC-02 | 116 | 0.033 | 49.7 | 4.7 | 2.9 | 0.088 | 2.600 | 0.024 | 7.0 | 2.13 | 0.043 | 1.4 | 2.688 | 0.019 | 0.31 |
| JUN-01 | 45 | 0.013 | 13.5 | 4.3 | 4.5 | 0.062 | 0.058 | 0.029 | 9.5 | 2.50 | 0.079 | 5.5 | 0.120 | 0.060 | 0.29 |
| JUN-02 | 45 | 0.022 | 13.1 | 4.5 | 4.7 | 0.060 | 0.082 | 0.024 | 9.3 | 2.40 | 0.084 | 6.5 | 0.142 | 0.048 | 0.28 |
| JUN-03 | 45 | 0.010 | 14.3 | 4.6 | 5.1 | 0.060 | 0.065 | 0.024 | 9.4 | 2.50 | 0.126 | 11.0 | 0.125 | 0.044 | 0.30 |
| JUN-04 | 58 | 0.026 | 59.2 | 450.0 | 31.8 | 0.210 | 0.007 | 0.015 | 8.8 | 244.00 | 1.270 | 130.0 | 0.217 | 0.038 | 8.60 |
| RAI-01 | 54 | 0.015 | 19.8 | 3.8 | 3.4 | 0.060 | 0.960 | 0.036 | 7.8 | 2.60 | 0.049 | 4.1 | 1.020 | 0.038 | 0.14 |
| RAI-02 | 108 | 0.010 | 39.9 | 5.0 | 5.0 | 0.060 | 0.990 | 0.029 | 7.4 | 3.10 | 0.119 | 8.2 | 1.050 | 0.033 | 0.14 |
| RAI-03 | 112 | 0.013 | 45.1 | 5.8 | 5.4 | 0.060 | 0.970 | 0.027 | 6.4 | 3.40 | 0.192 | 15.0 | 1.030 | 0.030 | 0.18 |
| RAI-04 | 113 | 0.011 | 45.5 | 5.5 | 5.5 | 0.060 | 0.940 | 0.026 | 5.7 | 3.50 | 0.192 | 15.0 | 1.000 | 0.033 | 0.18 |
| SGL-01 | 68 | 0.028 | 74.5 | 440.0 | 36.5 | 0.120 | 0.034 | 0.028 | 10.0 | 255.00 | 1.600 | 170.0 | 0.154 | 0.049 | 9.30 |
| SLV-01 | 184 | 0.012 | 78.0 | 10.0 | 10.3 | 0.060 | 1.100 | 0.041 | 12.0 | 7.20 | 0.601 | 41.0 | 1.160 | 0.047 | 0.61 |
| SLV-02 | 182 | 0.019 | 77.8 | 10.0 | 10.6 | 0.060 | 1.000 | 0.041 | 12.0 | 7.10 | 0.657 | 49.0 | 1.060 | 0.046 | 0.61 |
| SLV-03 | 177 | 0.016 | 76.1 | 10.0 | 10.6 | 0.060 | 0.980 | 0.041 | 11.0 | 7.20 | 0.646 | 47.0 | 1.040 | 0.047 | 0.62 |
| SLV-04 | 163 | 0.013 | 72.7 | 11.0 | 10.4 | 0.076 | 0.990 | 0.039 | 11.0 | 7.20 | 0.652 | 50.0 | 1.066 | 0.042 | 0.62 |
| SLV-05 | 161 | 0.016 | 72.2 | 10.0 | 10.2 | 0.099 | 0.980 | 0.039 | 11.0 | 7.10 | 0.647 | 49.0 | 1.079 | 0.049 | 0.62 |
| VOL-01 | 135 | 0.012 | 63.8 | 260.0 | 19.5 | 0.170 | 0.590 | 0.066 | 9.2 | 147.00 | 0.743 | 42.0 | 0.760 | 0.080 | 5.70 |
| VOL-02 | 135 | 0.010 | 63.0 | 270.0 | 19.4 | 0.150 | 0.600 | 0.066 | 9.2 | 146.00 | 0.716 | 41.0 | 0.750 | 0.082 | 5.70 |
| WAC-01 | 121 | 0.014 | 39.6 | 4.9 | 7.6 | 0.110 | 0.360 | 0.038 | 14.0 | 3.40 | 0.070 | 4.7 | 0.470 | 0.041 | 0.48 |
| WAC-02 | 146 | 0.022 | 49.1 | 5.4 | 8.4 | 0.110 | 0.170 | 0.036 | 13.0 | 3.60 | 0.080 | 5.2 | 0.280 | 0.038 | 0.40 |

| Site code | Alkalinity | Ammonia-N | Calcium | Chloride | Magnesium | Kjeldahl N | NOx | O-Phosphate-P | Silica | Sodium | Strontium | Sulfate | TOTALN | TOTALP | Potassium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAC-03 | 159 | 0.015 | 54.6 | 5.5 | 8.3 | 0.060 | 0.160 | 0.047 | 13.0 | 3.60 | 0.078 | 5.9 | 0.220 | 0.050 | 0.45 |
| WAK-01 | 138 | 0.018 | 46.6 | 7.5 | 9.7 | 0.085 | 0.600 | 0.032 | 11.0 | 5.50 | 0.104 | 9.5 | 0.685 | 0.030 | 0.54 |
| WAK-02 | 139 | 0.018 | 46.3 | 7.6 | 9.6 | 0.072 | 0.580 | 0.034 | 11.0 | 5.40 | 0.103 | 9.3 | 0.652 | 0.030 | 0.53 |
| WAK-03 | 140 | 0.024 | 46.9 | 7.8 | 9.6 | 0.110 | 0.580 | 0.031 | 11.0 | 5.50 | 0.104 | 9.4 | 0.690 | 0.033 | 0.53 |
| WEK-01 | 144 | 0.019 | 52.1 | 7.5 | 5.9 | 0.060 | 0.800 | 0.009 | 9.2 | 4.00 | 0.175 | 9.1 | 0.860 | 0.029 | 0.38 |
| WEK-02 | 145 | 0.019 | 52.6 | 7.5 | 6.1 | 0.060 | 0.810 | 0.009 | 9.3 | 4.10 | 0.180 | 9.0 | 0.870 | 0.030 | 0.36 |
| WEK-03 | 140 | 0.025 | 53.1 | 7.5 | 6.0 | 0.120 | 0.710 | 0.009 | 9.2 | 4.10 | 0.176 | 9.0 | 0.830 | 0.034 | 0.33 |
| WEK-04 | 140 | 0.027 | 55.9 | 100.0 | 12.3 | 0.160 | 0.670 | 0.007 | 9.0 | 59.00 | 0.242 | 23.0 | 0.830 | 0.030 | 2.30 |
| WKW-01 | 124 | 0.010 | 41.8 | 16.0 | 11.7 | 0.110 | 1.300 | 0.120 | 11.0 | 9.10 | 0.146 | 20.0 | 1.410 | 0.130 | 1.70 |
| WKW-02 | 133 | 0.011 | 41.8 | 16.0 | 11.6 | 0.100 | 1.200 | 0.120 | 10.0 | 9.20 | 0.141 | 20.0 | 1.300 | 0.150 | 1.70 |

Appendix A.7
Macroalgae percent cover and average cover thickness (cm). Blank indicates that site was not sampled.

| | Fall | | Spring | |
|---|---|---|---|---|
| Site code | Cover thickness | % cover | Cover thickness | % cover |
| ALE-01 | 7.1 | 74.1 | 4.0 | 45.7 |
| ALE-02 | 3.9 | 67.9 | 5.7 | 35.8 |
| CHA-01 | 3.2 | 48.1 | 4.5 | 64.2 |
| CHA-02 | 33.1 | 88.9 | 35.1 | 91.4 |
| CHA-03 | 2.0 | 2.5 | 20.0 | 16.0 |
| CYP-01 | 0.0 | 0.0 | | |
| FAN-01 | 15.9 | 80.2 | | |
| GAI-01 | 6.8 | 6.9 | 2.3 | 11.1 |
| GAI-02 | 9.2 | 54.3 | 4.2 | 58.0 |
| GUR-01 | 12.6 | 85.2 | | |
| HOM-01 | 11.2 | 79.0 | 8.3 | 17.3 |
| ICH-01 | 5.0 | 40.7 | 2.1 | 51.9 |
| ICH-02 | 34.7 | 82.7 | 21.0 | 56.9 |
| ICH-03 | 5.8 | 37.0 | 11.3 | 51.1 |
| ICH-04 | 10.4 | 86.4 | 9.4 | 67.9 |
| ICH-05 | 12.8 | 66.7 | 22.3 | 82.7 |
| ICH-06 | 4.0 | 51.9 | 15.3 | 25.9 |
| ICH-07 | 4.0 | 7.4 | 6.8 | 12.3 |
| ICH-08 | 1.4 | 16.0 | 4.3 | 30.9 |
| IND-01 | 13.1 | 87.7 | | |
| JAC-01 | 11.6 | 16.0 | 6.6 | 25.9 |
| JAC-02 | 1.4 | 8.6 | 2.0 | 11.1 |
| JAC-03 | 8.2 | 63.0 | 3.3 | 76.5 |
| JUN-01 | 4.5 | 50.6 | 5.6 | 43.2 |
| JUN-02 | 3.9 | 54.3 | 9.3 | 60.5 |
| JUN-03 | 1.8 | 16.0 | 5.0 | 16.0 |
| JUN-04 | 3.5 | 13.6 | 1.5 | 7.4 |
| LAF-01 | 3.1 | 37.0 | | |
| LTR-01 | 1.3 | 4.9 | | |
| MAD-01 | 6.3 | 69.1 | | |
| MNT-01 | 17.6 | 93.8 | | |
| PON-01 | 7.6 | 17.3 | 8.6 | 12.3 |
| RAI-01 | 6.1 | 24.7 | 3.4 | 40.7 |
| RAI-02 | 3.0 | 19.8 | 2.8 | 23.5 |
| RAI-03 | 8.9 | 80.2 | 17.2 | 98.8 |
| RAI-04 | 19.0 | 75.3 | 12.0 | 90.1 |
| SGL-01 | 30.4 | 74.1 | 39.1 | 82.7 |
| SLV-01 | 14.6 | 33.3 | 4.5 | 18.5 |
| SLV-02 | 19.7 | 70.4 | 19.1 | 50.6 |
| SLV-03 | 7.8 | 54.3 | 18.4 | 34.6 |
| SLV-04 | 2.6 | 54.3 | 18.9 | 39.5 |
| SLV-05 | 2.7 | 45.7 | 14.0 | 18.5 |
| TRY-01 | 0.5 | 16.0 | | |
| TUT-01 | 2.2 | 8.6 | | |
| VOL-01 | 9.7 | 76.5 | 7.9 | 86.4 |
| VOL-02 | 15.6 | 80.2 | 14.8 | 87.7 |
| WAC-01 | 1.8 | 23.5 | 3.8 | 24.7 |
| WAC-02 | 7.3 | 29.6 | 1.4 | 6.2 |

| Site code | Fall | | Spring | |
|---|---|---|---|---|
| | Cover thickness | % cover | Cover thickness | % cover |
| WAC-03 | 10.4 | 64.2 | 21.8 | 32.1 |
| WAK-01 | 8.8 | 50.6 | 12.7 | 40.7 |
| WAK-02 | 4.6 | 12.3 | 11.9 | 45.7 |
| WAK-03 | 9.4 | 18.5 | 7.8 | 19.8 |
| WEK-01 | 55.1 | 86.4 | 28.4 | 74.1 |
| WEK-02 | 11.7 | 58.0 | 18.0 | 38.3 |
| WEK-03 | 6.7 | 37.0 | 3.5 | 35.8 |
| WEK-04 | 3.3 | 38.3 | 3.0 | 40.7 |
| WGT-01 | 5.3 | 32.1 | | |
| WIL-01 | 3.0 | 13.6 | | |
| WKW-01 | 6.8 | 60.5 | 1.6 | 75.3 |
| WKW-02 | 5.0 | 39.5 | 5.7 | 23.5 |

Appendix A.8
Percent cover by different taxa of macroalgae based on presence in the sampling point in the fall. For taxa codes refer to table x

| Site code | Ap | B | Br | C | Cg | Ch | Cm | D | E | Hd | L | Ls | O | Od | Ph | Po | Rh | S | U | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALE-01 | 12.3 | 3.7 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 50.6 | 16.0 | 3.7 | 4.9 | 0.0 | 0.0 | 0.0 | 6.2 | 2.5 | 0.0 | 4.9 |
| ALE-02 | 3.7 | 2.5 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 3.7 | 7.4 | 45.7 | 8.6 | 0.0 | 0.0 | 0.0 | 2.5 | 3.7 | 0.0 | 0.0 |
| CHA-01 | 0.0 | 14.8 | 0.0 | 14.8 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 4.9 | 0.0 | 23.5 |
| CHA-02 | 0.0 | 3.7 | 0.0 | 7.4 | 0.0 | 2.5 | 0.0 | 0.0 | 1.2 | 1.2 | 63.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 16.0 | 0.0 | 67.9 |
| CHA-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CYP-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| FAN-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 71.6 |
| GAI-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 |
| GAI-02 | 0.0 | 0.0 | 0.0 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.4 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 |
| GUR-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 85.2 |
| HOM-01 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 79.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 0.0 | 0.0 |
| ICH-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| ICH-02 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 76.5 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 |
| ICH-03 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.6 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ICH-04 | 0.0 | 61.7 | 0.0 | 46.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 0.0 | 22.2 | 0.0 | 29.6 | 0.0 | 21.0 | 21.0 | 33.3 | 12.3 |
| ICH-05 | 0.0 | 29.6 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.1 | 0.0 | 42.0 | 0.0 | 2.5 | 0.0 | 23.5 | 2.5 | 0.0 | 3.7 |
| ICH-06 | 0.0 | 35.8 | 0.0 | 21.0 | 0.0 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 4.9 | 1.2 | 23.5 | 4.9 |
| ICH-07 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| ICH-08 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 |
| IND-01 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.6 | 60.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 0.0 | 0.0 |
| JAC-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 |
| JAC-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| JAC-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.0 | 0.0 | 0.0 |
| JUN-01 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 |
| JUN-02 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 34.6 | 0.0 | 0.0 |
| JUN-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| JUN-04 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 |
| LAF-01 | 0.0 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 28.4 |
| LTR-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 3.7 |
| MAD-01 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 29.6 | 0.0 | 42.0 |
| MNT-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.4 |
| PON-01 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 |
| RAI-01 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| RAI-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Site code | Ap | B | Br | C | Cg | Ch | Cm | D | E | Hd | L | Ls | O | Od | Ph | Po | Rh | S | U | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAI-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 80.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RAI-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 75.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SGL-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 74.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| SLV-01 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.7 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 |
| SLV-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.0 | 0.0 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 12.3 |
| SLV-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 |
| SLV-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.7 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 |
| SLV-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 |
| TRY-01 | 0.0 | 16.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TUT-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 |
| VOL-01 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 39.5 |
| VOL-02 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 | 40.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | 58.0 |
| WAC-01 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.5 | 0.0 | 1.2 |
| WAC-02 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 24.7 | 0.0 | 0.0 |
| WAC-03 | 0.0 | 38.3 | 0.0 | 1.2 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 18.5 | 0.0 | 0.0 |
| WAK-01 | 0.0 | 3.7 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 17.3 | 0.0 | 40.7 |
| WAK-02 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WAK-03 | 0.0 | 1.2 | 0.0 | 3.7 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 |
| WEK-01 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.6 | 0.0 | 19.8 | 58.0 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 2.5 | 0.0 |
| WEK-02 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 0.0 | 4.9 | 27.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 12.3 |
| WEK-03 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 11.1 |
| WEK-04 | 0.0 | 1.2 | 0.0 | 0.0 | 27.2 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 7.4 |
| WGT-01 | 0.0 | 0.0 | 0.0 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.9 | 1.2 | 0.0 | 0.0 |
| WIL-01 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 | 11.1 | 0.0 | 2.5 |
| WKW-01 | 24.7 | 0.0 | 0.0 | 3.7 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 1.2 | 19.8 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 4.9 | 30.9 | 0.0 | 17.3 |
| WKW-02 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 17.3 |

Percent cover by different taxa of macroalgae based on presence in the sampling point in the spring. For taxa codes refer to table x

| Site code | Ap | B | C | Cg | Ch | Cm | D | E | Hd | L | Ls | O | Ph | Po | Rh | S | Sh | T | U | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALE-01 | 1.2 | 1.2 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.9 | 11.1 | 12.3 | 1.2 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| ALE-02 | 2.5 | 1.2 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.6 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| CHA-01 | 0.0 | 27.2 | 9.9 | 2.5 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 4.9 | 24.7 | 4.9 | 0.0 | 0.0 | 0.0 | 27.2 |
| CHA-02 | 0.0 | 3.7 | 3.7 | 0.0 | 2.5 | 72.8 | 0.0 | 4.9 | 0.0 | 87.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 87.7 |
| CHA-03 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAI-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| GAI-02 | 0.0 | 0.0 | 48.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 46.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HOM-01 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ICH-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.4 | 0.0 | 24.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 |
| ICH-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 51.9 | 0.0 | 11.1 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 1.2 | 0.0 | 6.2 |
| ICH-03 | 0.0 | 0.0 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.2 | 0.0 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 |
| ICH-04 | 0.0 | 51.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.2 | 0.0 | 16.0 | 0.0 | 0.0 | 21.0 | 23.5 | 0.0 | 0.0 | 16.0 | 12.3 |
| ICH-05 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.0 | 0.0 | 40.7 | 0.0 | 0.0 | 0.0 | 46.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| ICH-06 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 9.9 |
| ICH-07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 7.4 |
| ICH-08 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.0 |
| JAC-01 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| JAC-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| JAC-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.7 | 0.0 | 0.0 | 0.0 | 27.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| JUN-01 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| JUN-02 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 44.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| JUN-03 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| JUN-04 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 |
| PON-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| RAI-01 | 13.6 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RAI-02 | 0.0 | 0.0 | 23.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RAI-03 | 0.0 | 12.3 | 93.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RAI-04 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SGL-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 82.7 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SLV-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 |
| SLV-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 49.4 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.3 |
| SLV-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 |
| SLV-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 4.9 |
| SLV-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 16.0 |
| VOL-01 | 0.0 | 29.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 | 82.7 |

| Site code | Ap | B | C | Cg | Ch | Cm | D | E | Hd | L | Ls | O | Ph | Po | Rh | S | Sh | T | U | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOL-02 | 0.0 | 30.9 | 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 8.6 | 76.5 |
| WAC-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.2 | 0.0 | 0.0 | 0.0 | 3.7 |
| WAC-02 | 0.0 | 4.9 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| WAC-03 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 25.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| WAK-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.7 |
| WAK-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.7 |
| WAK-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 16.0 |
| WEK-01 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 29.6 | 0.0 | 0.0 | 46.9 | 0.0 | 12.3 | 0.0 | 0.0 | 0.0 | 18.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| WEK-02 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 | 0.0 | 2.5 | 14.8 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| WEK-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.8 |
| WEK-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 27.2 |
| WKW-01 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.7 | 0.0 | 61.7 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.4 |
| WKW-02 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 | 0.0 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 |

Appendix A.9

Fall epiphyte, macroalgae and epipelon aerial dry mass (DM), ash free dry mass (AFDM), chlorophyll a (Chla) and pheophytin (Pheo) expressed in mg/cm$^2$ (Q next to site code refers to repeated sampling for QAQC). Blank indicates that sample was not collected due to absence of substratum or in case of epipelon samples sampling was not scheduled.

| | Epiphytes | | | | Macroalgae | | | | Epipelon | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site code | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo |
| ALE-01 | 1.566 | 0.901 | 0.0016 | 0.0008 | 54.834 | 20.634 | 0.2550 | 0.7233 | | | | |
| ALE-02 | 2.324 | 1.259 | 0.0140 | 0.0059 | 17.390 | 12.185 | 0.7144 | 0.2662 | | | | |
| CHA-01 | 1.462 | 0.851 | 0.0015 | 0.0017 | 14.136 | 10.489 | 0.9519 | 1.6608 | | | | |
| CHA-02 | 0.709 | 0.456 | 0.0015 | 0.0005 | 154.487 | 126.106 | 13.3785 | 0.5954 | | | | |
| CHA-03 | 6.758 | 1.929 | 0.0007 | 0.0033 | 12.324 | 6.507 | 0.3055 | 0.2164 | | | | |
| CYP-01 | 0.444 | 0.373 | 0.0001 | 0.0001 | | | | | 23.366 | 5.881 | 0.0106 | 0.0500 |
| CYP-01Q | 0.517 | 0.409 | 0.0000 | 0.0002 | | | | | 18.962 | 5.025 | 0.0099 | 0.0144 |
| FAN-01 | 1.430 | 0.938 | 0.0052 | 0.0044 | 41.617 | 30.768 | 0.8342 | 0.4098 | 18.714 | 5.211 | 0.0050 | 0.0090 |
| GAI-01 | 0.853 | 0.586 | 0.0003 | 0.0009 | 22.975 | 18.705 | 0.0670 | 0.0740 | | | | |
| GAI-02 | 0.275 | 0.230 | 0.0006 | 0.0007 | 37.693 | 22.668 | 0.1951 | 0.1916 | | | | |
| GUR-01 | 3.587 | 1.772 | 0.0017 | 0.0132 | 87.845 | 27.298 | 0.2107 | 0.0404 | 58.717 | 12.936 | 0.0137 | 0.0168 |
| HOM-01 | 2.903 | 1.298 | 0.0017 | 0.0001 | 28.726 | 17.866 | 0.4661 | 1.0992 | | | | |
| ICH-01 | 0.437 | 0.238 | 0.0017 | -0.0002 | 31.185 | 21.480 | 2.2325 | 0.1057 | 20.751 | 7.983 | 0.0134 | 0.0095 |
| ICH-01Q | 0.669 | 0.373 | 0.0013 | 0.0001 | 33.911 | 26.122 | 2.0042 | 0.7835 | 16.500 | 7.022 | 0.0219 | 0.0023 |
| ICH-02 | 2.462 | 1.300 | 0.1033 | 0.0242 | 156.553 | 129.189 | 10.4792 | 2.0352 | | | | |
| ICH-03 | 1.246 | 0.717 | 0.0075 | 0.0000 | 35.702 | 24.181 | 2.3322 | 0.5640 | | | | |
| ICH-04 | 1.477 | 0.907 | 0.0002 | 0.0019 | 46.273 | 28.544 | 2.2903 | 1.7906 | | | | |
| ICH-05 | 4.113 | 2.242 | 0.0297 | 0.0110 | 77.730 | 38.186 | 2.2791 | 0.0000 | | | | |
| ICH-06 | 1.658 | 0.926 | 0.0105 | 0.0028 | 20.852 | 10.889 | 2.9056 | 0.1280 | | | | |
| ICH-07 | 0.808 | 0.565 | 0.0099 | 0.0008 | 8.550 | 6.420 | 1.1583 | 2.3938 | | | | |
| ICH-08 | 1.279 | 0.899 | 0.0075 | 0.0025 | 4.219 | 3.230 | 0.2342 | 0.2901 | | | | |
| IND-01 | | | | | 92.536 | 50.310 | 0.5355 | 0.7805 | 68.832 | 14.886 | | |
| JAC-01 | 1.152 | 0.632 | 0.0015 | 0.0006 | 23.836 | 21.411 | 0.1196 | 0.6600 | | | | |
| JAC-02 | 2.568 | 1.238 | 0.0013 | 0.0016 | 22.146 | 9.489 | 0.0842 | 0.0686 | 59.822 | 7.413 | 0.0075 | 0.0063 |
| JAC-03 | 6.871 | 1.572 | 0.0051 | 0.0041 | 34.566 | 24.386 | 0.2345 | 0.6565 | | | | |
| JUN-01 | 0.694 | 0.389 | 0.0070 | 0.0022 | 27.533 | 20.719 | 0.8075 | 1.5577 | | | | |
| JUN-02 | 5.670 | 5.119 | 0.0036 | 0.0131 | 24.073 | 19.688 | 0.7234 | 0.9890 | | | | |
| JUN-03 | 0.702 | 0.471 | 0.0021 | 0.0000 | 24.132 | 15.222 | 0.7341 | 0.3290 | | | | |
| JUN-04 | 6.319 | 2.604 | 0.0100 | 0.0112 | 30.660 | 14.080 | 1.2625 | 2.1417 | | | | |
| LAF-01 | | | | | 49.024 | 16.104 | 0.2750 | 0.1027 | 31.347 | 7.584 | 0.0078 | 0.0093 |
| LTR-01 | 1.547 | 0.730 | 0.0022 | 0.0101 | 11.881 | 4.081 | 0.0412 | 0.1510 | 157.683 | 31.591 | 0.0009 | 0.0201 |
| MAD-01 | 1.860 | 0.721 | 0.0063 | 0.0070 | 382.713 | 26.710 | 0.3639 | 0.7719 | 12.006 | 4.289 | 0.0013 | 0.0144 |

| | Epiphytes | | | | Macroalgae | | | | Epipelon | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site code | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo |
| MNT-01 | 1.549 | 1.093 | 0.0009 | 0.0012 | 68.117 | 42.806 | 1.2759 | 0.7208 | 25.335 | 5.833 | 0.0048 | 0.0100 |
| PON-01 | 0.307 | 0.216 | 0.0003 | 0.0001 | 11.676 | 5.969 | 0.0256 | 0.1355 | | | | |
| RAI-01 | 1.743 | 0.926 | 0.0009 | 0.0018 | 53.210 | 30.341 | 1.3722 | 4.0804 | | | | |
| RAI-02 | 1.472 | 0.769 | 0.0032 | 0.0009 | 20.334 | 12.349 | 0.4155 | 0.3940 | 18.533 | 9.741 | 0.0298 | 0.0220 |
| RAI-03 | 1.202 | 0.766 | 0.0011 | 0.0040 | 53.836 | 38.905 | 1.5079 | 2.4626 | | | | |
| RAI-04 | 0.863 | 0.478 | 0.0016 | 0.0029 | 97.729 | 81.451 | 3.8597 | 0.0000 | | | | |
| SGL-01 | 0.376 | 0.252 | 0.0019 | 0.0024 | 251.905 | 192.979 | 4.5076 | 2.9527 | 8.097 | 4.177 | 0.0095 | 0.0177 |
| SGL-01Q | 0.303 | 0.208 | 0.0011 | 0.0042 | 170.729 | 131.962 | 1.1045 | 9.6227 | 8.971 | 4.852 | 0.0019 | 0.0055 |
| SLV-01 | 1.438 | 0.780 | 0.0054 | 0.0017 | 96.229 | 58.152 | 8.0680 | 1.0327 | | | | |
| SLV-02 | 1.885 | 0.870 | 0.0086 | 0.0015 | 157.448 | 116.174 | 4.0343 | 0.3832 | 33.956 | 13.638 | 0.0038 | 0.0139 |
| SLV-03 | 1.902 | 1.027 | 0.0041 | 0.0068 | 43.381 | 25.430 | 0.2852 | 7.0390 | | | | |
| SLV-04 | 1.574 | 0.753 | 0.0037 | 0.0017 | 17.175 | 8.649 | 0.9021 | 0.0916 | | | | |
| SLV-05 | 2.050 | 0.785 | 0.0050 | 0.0048 | 19.911 | 11.113 | 0.3429 | 0.5318 | | | | |
| TRY-01 | 1.894 | 1.076 | 0.0027 | 0.0012 | | | | | 26.853 | 6.537 | 0.0091 | 0.0082 |
| TUT-01 | 0.592 | 0.375 | 0.0007 | 0.0018 | 8.126 | 4.694 | 0.0642 | 0.0521 | 54.628 | 12.684 | 0.0001 | 0.0085 |
| VOL-01 | 2.876 | 1.338 | 0.0036 | 0.0008 | 32.059 | 28.020 | 7.2201 | 2.0823 | | | | |
| VOL-02 | 2.728 | 1.188 | 0.0029 | 0.0000 | 88.087 | 68.800 | 26.2709 | 3.1852 | | | | |
| WAC-01 | 3.031 | 1.761 | 0.0083 | 0.0092 | 5.466 | 4.255 | 0.0503 | 0.0278 | | | | |
| WAC-02 | 3.156 | 1.583 | 0.0024 | 0.0057 | 30.460 | 26.737 | 0.0364 | 0.9149 | | | | |
| WAC-03 | 3.019 | 1.482 | 0.0079 | 0.0023 | 53.447 | 23.740 | 0.1516 | 0.1551 | | | | |
| WAK-01 | 4.149 | 1.735 | 0.0000 | 0.0356 | 70.850 | 31.682 | 0.0399 | 0.2515 | | | | |
| WAK-02 | 1.899 | 0.969 | 0.0011 | 0.0073 | 17.336 | 6.696 | 0.0275 | 0.0595 | | | | |
| WAK-03 | 2.334 | 1.252 | 0.0042 | 0.0068 | 43.925 | 31.839 | 0.3903 | 0.3731 | | | | |
| WEK-01 | 0.597 | 0.535 | 0.0009 | 0.0010 | 236.103 | 191.782 | 30.6683 | 0.0000 | | | | |
| WEK-02 | 0.669 | 0.504 | 0.0009 | 0.0012 | 59.694 | 48.967 | 5.5244 | 3.8723 | | | | |
| WEK-03 | 0.963 | 0.516 | 0.0008 | 0.0018 | 22.813 | 16.381 | 2.6399 | 1.4771 | 5.403 | 3.624 | 0.0139 | 0.0199 |
| WEK-04 | 1.930 | 0.989 | 0.0018 | 0.0014 | 12.280 | 8.372 | 0.5326 | 0.6910 | | | | |
| WGT-01 | 1.846 | 1.228 | 0.0010 | 0.0084 | 26.908 | 16.934 | 0.0508 | 0.0990 | 23.978 | 9.569 | 0.0185 | 0.0260 |
| WIL-01 | 1.440 | 0.885 | 0.0026 | 0.0027 | 13.552 | 8.391 | 0.2981 | 0.2069 | 31.633 | 7.815 | 0.0088 | 0.0126 |
| WKW-01 | 2.677 | 1.965 | 0.0029 | 0.0011 | 41.988 | 17.374 | 2.4011 | 1.1410 | | | | |
| WKW-02 | 0.990 | 0.719 | 0.0033 | 0.0000 | 30.332 | 18.459 | 1.6441 | 0.7504 | | | | |

Spring epiphyte, macroalgae and epipelon aerial dry mass (DM), ash free dry mass (AFDM), chlorophyll a (Chla) and pheophytin (Pheo) expressed in mg/cm$^2$ (Q next to site code refers to repeated sampling for QAQC). Blank indicates that sample was not collected due to absence of substratum. Epipelon sample from SLV-03 was not collected due to very deep water and strong current. “No data” indicates that sample was lost.

| | Epiphytes | | | | Macroalgae | | | | Epipelon | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site code | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo |
| ALE-01 | 2.364 | 0.883 | 0.0031 | 0.0015 | 38.521 | 30.018 | 0.0238 | 0.0510 | 221.368 | 10.539 | 0.0129 | 0.0301 |
| ALE-02 | 8.299 | 4.097 | 0.0353 | 0.0161 | 31.477 | 18.899 | 0.0652 | 0.1570 | 9.045 | 3.068 | 0.0000 | 0.0000 |
| CHA-01 | 3.741 | 1.789 | 0.0126 | 0.0071 | 14.386 | 3.749 | 0.1451 | 0.1280 | 20.036 | 9.720 | 0.0018 | 0.0006 |
| CHA-02 | 3.250 | 1.570 | 0.0261 | 0.0089 | 103.725 | 29.699 | 0.0722 | 0.2372 | 300.759 | 17.208 | 0.1034 | 0.5959 |
| CHA-03 | 3.844 | 2.347 | 0.0169 | 0.0148 | 73.600 | 26.640 | 0.2176 | 0.3684 | 212.772 | 29.332 | 0.0051 | 0.0031 |
| GAI-01 | 1.131 | 0.582 | 0.0010 | 0.0005 | 9.392 | 3.227 | 0.0314 | 0.0451 | 34.871 | 12.776 | 0.0025 | 0.0046 |
| GAI-02 | 1.642 | 0.637 | 0.0077 | 0.0028 | 41.572 | 21.966 | 0.0568 | 0.2002 | 12.440 | 4.670 | 0.0079 | 0.0152 |
| HOM-01 | 1.275 | 0.450 | 0.0014 | 0.0008 | 58.491 | 37.288 | 0.2127 | 0.0670 | 330.385 | 8.890 | 0.0172 | 0.0111 |
| ICH-01 | 3.270 | 1.820 | 0.0213 | 0.0107 | No data | No data | No data | No data | 93.096 | 20.912 | 0.0034 | 0.0016 |
| ICH-02 | 7.568 | 3.195 | 0.0766 | 0.0342 | No data | No data | 0.0927 | 0.5345 | 52.632 | 19.555 | 0.0418 | 0.0540 |
| ICH-03 | 2.613 | 1.021 | 0.0044 | 0.0043 | No data | No data | No data | No data | 22.866 | 8.379 | 0.0002 | 0.0026 |
| ICH-04 | 14.086 | 6.247 | 0.0418 | 0.0254 | 63.662 | 32.202 | 0.0897 | 0.4293 | 24.729 | 11.929 | 0.0048 | 0.0085 |
| ICH-05 | 12.238 | 4.196 | 0.0214 | 0.0127 | 97.494 | 39.122 | 0.6712 | 0.3794 | 41.875 | 14.365 | 0.0118 | 0.0096 |
| ICH-06 | 1.704 | 0.799 | 0.0090 | 0.0049 | 85.946 | 49.138 | 0.2835 | 0.8873 | 23.601 | 8.401 | 0.0011 | 0.0036 |
| ICH-07 | 1.492 | 0.639 | 0.0079 | 0.0052 | 23.347 | 10.082 | 0.1340 | 0.0987 | 45.053 | 16.697 | 0.0070 | 0.0077 |
| ICH-08 | 0.305 | 0.127 | 0.0008 | 0.0006 | 20.820 | 7.566 | 0.0898 | 0.1578 | 57.757 | 29.377 | 0.0047 | 0.0091 |
| JAC-01 | 2.912 | 1.444 | 0.0203 | 0.0162 | 29.202 | 15.023 | 0.0128 | 0.1031 | 14.419 | 5.694 | 0.0113 | 0.0119 |
| JAC-02 | 4.099 | 2.158 | 0.0086 | 0.0049 | 42.627 | 26.530 | 0.3799 | 0.1335 | 22.253 | 6.626 | 0.0054 | 0.0045 |
| JAC-03 | 7.474 | 4.630 | 0.0000 | 0.0000 | 66.079 | 44.141 | 0.5201 | 0.6969 | 219.594 | 35.132 | 0.0210 | 0.0715 |
| JUN-01 | 1.635 | 0.749 | 0.0066 | 0.0071 | 20.786 | 7.537 | 0.0820 | 0.0550 | 130.906 | 3.977 | 0.0143 | 0.0073 |
| JUN-02 | | | | | 8.087 | 3.471 | 0.0146 | 0.0438 | 271.644 | 8.963 | 0.0013 | 0.0007 |
| JUN-03 | 2.122 | 1.161 | 0.0195 | 0.0139 | 18.525 | 7.480 | 0.0221 | 0.0801 | 171.099 | 4.199 | 0.0034 | 0.0027 |
| JUN-04 | 3.713 | 1.615 | 0.0055 | 0.0019 | 16.803 | 14.016 | 0.0193 | 0.0237 | 3.052 | 1.405 | 0.0017 | 0.0001 |
| PON-01 | 0.855 | 0.346 | 0.0026 | 0.0016 | 23.019 | 8.973 | 0.0620 | 0.1256 | 13.798 | 4.105 | 0.0061 | 0.0077 |
| RAI-01 | 2.950 | 1.503 | 0.0074 | 0.0063 | 11.954 | 2.980 | 0.0596 | 0.0375 | 379.351 | 12.516 | 0.0454 | 0.0387 |
| RAI-02 | 1.887 | 0.982 | 0.0056 | 0.0045 | | | | | 127.863 | 6.682 | 0.0229 | 0.0236 |
| RAI-03 | 4.684 | 2.532 | 0.0217 | 0.0119 | 104.236 | 55.317 | 0.0757 | 0.9271 | 242.306 | 20.232 | 0.0435 | 0.0281 |
| RAI-04 | 3.166 | 1.660 | 0.0121 | 0.0065 | 64.277 | 41.158 | 0.1199 | 0.1325 | 52.488 | 13.377 | 0.0281 | 0.0319 |
| SGL-01 | 4.667 | 2.157 | 0.0121 | 0.0062 | 184.557 | 68.257 | 0.7769 | 0.4529 | 6.118 | 1.992 | 0.0038 | 0.0040 |
| SLV-01 | 5.506 | 2.971 | 0.0281 | 0.0178 | 25.204 | 16.856 | 0.0759 | 0.0637 | 62.959 | 14.035 | 0.0122 | 0.0178 |
| SLV-02 | 4.765 | 2.351 | 0.0096 | 0.0054 | 88.338 | 46.868 | 0.4143 | 0.5275 | 21.458 | 10.146 | 0.0007 | 0.0022 |

| | Epiphytes | | | | Macroalgae | | | | Epipelon | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site code | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo | DM | AFDM | Chla | Pheo |
| SLV-03 | 16.667 | 8.604 | 0.0271 | 0.0134 | 101.749 | 47.821 | 0.4929 | 0.6448 | | | | |
| SLV-04 | 10.705 | 5.458 | 0.0307 | 0.0256 | 54.590 | 22.309 | 0.2038 | 0.2228 | 130.867 | 43.581 | 0.0007 | 0.0017 |
| SLV-05 | 9.925 | 5.259 | 0.0107 | 0.0746 | 45.038 | 22.946 | 0.1368 | 0.2178 | 448.756 | 66.042 | 0.0008 | 0.0015 |
| VOL-01 | 1.377 | 0.588 | 0.0020 | 0.0009 | 102.747 | 90.460 | 0.1097 | 0.1074 | 190.526 | 12.013 | 0.0478 | 0.0268 |
| VOL-02 | 0.746 | 0.321 | 0.0006 | 0.0006 | 98.519 | 64.405 | 0.0159 | 0.0614 | 108.808 | 10.074 | 0.0216 | 0.0393 |
| WAC-01 | 0.916 | 0.426 | 0.0036 | 0.0037 | 4.604 | 0.389 | 0.0361 | 0.0184 | 1075.651 | 48.191 | 0.0018 | 0.0023 |
| WAC-02 | 9.858 | 5.252 | 0.0133 | 0.0279 | 2.186 | 1.045 | 0.0036 | 0.0129 | 204.152 | 32.585 | 0.0007 | 0.0019 |
| WAC-03 | 3.418 | 1.729 | 0.0154 | 0.0084 | 56.878 | 26.621 | 0.0845 | 0.0899 | 50.866 | 13.916 | 0.0080 | 0.0120 |
| WAK-01 | 6.193 | 3.110 | 0.0277 | 0.0106 | 18.115 | 6.929 | 0.2648 | 0.1430 | 472.735 | 48.865 | 0.0189 | 0.0418 |
| WAK-02 | 0.500 | 0.254 | 0.0010 | 0.0011 | 29.859 | 12.893 | 0.2583 | 0.3031 | 174.975 | 28.008 | 0.0065 | 0.0117 |
| WAK-03 | 4.731 | 2.417 | 0.0018 | 0.0013 | 17.132 | 7.978 | 0.0460 | 0.1933 | 643.495 | 68.572 | 0.0039 | 0.0098 |
| WEK-01 | | | | | 157.686 | 72.845 | 1.0833 | 0.8550 | 15.130 | 4.564 | 0.0055 | 0.0094 |
| WEK-02 | | | | | 88.060 | 38.469 | 0.2997 | 0.5486 | 374.654 | 12.099 | 0.0251 | 0.0150 |
| WEK-03 | 21.461 | 11.653 | 0.0379 | 0.0293 | 56.774 | 47.973 | 0.0765 | 0.0855 | 14.580 | 7.752 | 0.0026 | 0.0025 |
| WEK-04 | 1.651 | 0.701 | 0.0018 | 0.0047 | 8.970 | 3.900 | 0.0388 | 0.0572 | 22.482 | 10.118 | 0.0043 | 0.0064 |
| WKW-01 | 1.780 | 0.558 | 0.0065 | 0.0036 | 16.729 | 13.221 | 0.0236 | 0.0465 | 12.605 | 3.599 | 0.0134 | 0.0078 |
| WKW-02 | 2.299 | 0.907 | 0.0159 | 0.0183 | 33.093 | 22.314 | 0.0823 | 0.0696 | 24.045 | 7.350 | 0.0259 | 0.0183 |

Appendix A.10
Mat TN and TP content in the fall and in the spring expressed in mg/Kg fresh mass and molar TN/TP ratio.

| | Fall | | | Spring | | |
|---|---|---|---|---|---|---|
| Site code | TN | TP | TN/TP | TN | TP | TN/TP |
| ALE-01 | 12000 | 1400 | 19 | 14000 | 1600 | 19 |
| ALE-02 | 9900 | 1100 | 20 | | | |
| CHA-01 | 10000 | 700 | 32 | | | |
| CHA-02 | 15000 | 1100 | 30 | 13000 | 1200 | 24 |
| CHA-03 | 5700 | 320 | 39 | | | |
| CYP-01 | | | | | | |
| FAN-01 | 12000 | 670 | 40 | | | |
| GAI-01 | 7500 | 200 | 83 | | | |
| GAI-02 | 14000 | 1000 | 31 | 7200 | 290 | 55 |
| GUR-01 | 8300 | 560 | 33 | | | |
| HOM-01 | 6800 | 380 | 40 | 4100 | 190 | 48 |
| ICH-01 | 820000 | 35000 | 52 | 7400 | 1100 | 15 |
| ICH-02 | 620000 | 33000 | 42 | | | |
| ICH-03 | 510000 | 69000 | 16 | | | |
| ICH-04 | 510000 | 35000 | 32 | | | |
| ICH-05 | 410000 | 52000 | 17 | | | |
| ICH-06 | 350000 | 50000 | 15 | | | |
| ICH-07 | 350000 | 51000 | 15 | | | |
| ICH-08 | 430000 | 51000 | 19 | | | |
| IND-01 | 4300 | 530 | 18 | | | |
| JAC-01 | 1800 | 67 | 59 | 2500 | 120 | 46 |
| JAC-02 | 10000 | 640 | 35 | 5400 | 480 | 25 |
| JAC-03 | 3800 | 120 | 70 | 5600 | 370 | 33 |
| JUN-01 | 17000 | 1500 | 25 | 7500 | 2200 | 8 |
| JUN-02 | 2300 | 73 | 70 | | | |
| JUN-03 | 15000 | 1200 | 28 | | | |
| JUN-04 | 6800 | 830 | 18 | | | |
| LAF-01 | 4600 | 420 | 24 | | | |
| LTR-01 | 4500 | 520 | 19 | | | |
| MAD-01 | 4800 | 490 | 22 | | | |
| MNT-01 | 7300 | 1700 | 9 | | | |
| PON-01 | 3000 | 380 | 17 | 3500 | 330 | 23 |
| RAI-01 | 12000 | 1100 | 24 | 8200 | 770 | 24 |
| RAI-02 | 8500 | 500 | 38 | | | |
| RAI-03 | 19000 | 2600 | 16 | | | |
| RAI-04 | 19000 | 1500 | 28 | | | |
| SGL-01 | 12000 | 930 | 29 | 14000 | 1500 | 21 |
| SLV-01 | 18000 | 1700 | 23 | 10000 | 1100 | 20 |
| SLV-02 | 18000 | 1200 | 33 | | | |
| SLV-03 | 12000 | 910 | 29 | | | |
| SLV-04 | 7000 | 920 | 17 | | | |
| SLV-05 | 14000 | 1100 | 28 | | | |
| TRY-01 | | | | | | |
| TUT-01 | 5000 | 480 | 23 | | | |
| VOL-01 | 22000 | 4300 | 11 | 2700 | 2500 | 2 |
| VOL-02 | 24000 | 3000 | 18 | | | |
| WAC-01 | 8300 | 400 | 46 | 11000 | 1400 | 17 |
| WAC-02 | 3000 | 160 | 41 | | | |

| Site code | Fall | | | Spring | | |
|---|---|---|---|---|---|---|
| | TN | TP | TN/TP | TN | TP | TN/TP |
| WAC-03 | 4800 | 560 | 19 | | | |
| WAK-01 | 6900 | 380 | 40 | 11000 | 1000 | 24 |
| WAK-02 | 4500 | 470 | 21 | | | |
| WAK-03 | 2100 | 100 | 46 | | | |
| WEK-01 | 26000 | 1200 | 48 | 10000 | 590 | 37 |
| WEK-02 | 7400 | 550 | 30 | | | |
| WEK-03 | 8900 | 14000 | 1 | | | |
| WEK-04 | 7800 | 660 | 26 | | | |
| WGT-01 | 6500 | 580 | 25 | | | |
| WIL-01 | 12000 | 620 | 43 | | | |
| WKW-01 | 205500 | 66700 | 7 | 5000 | 5100 | 2 |
| WKW-02 | 11000 | 3400 | 7 | | | |

Appendix A.11
Results of algae growth potential and algal limiting nutrient essays.

| Spring | Site code | Algae Growth Potential (mg DM/L) | Algal Limiting Nutrient |
|---|---|---|---|
| Alexander | ALE-01 | 1.12 | Nitrogen |
| Chassahowitzka | CHA-01 | 3.15 | Phosphorus |
| Fanning | FAN-01 | 5.11 | Phosphorus |
| Gainer | GAI-02 | 4.33 | Co-limited |
| Guranato | GUR-01 | 1.87 | Phosphorus |
| Homosassa | HOM-01 | 9.62 | Phosphorus |
| Ichetucknee | ICH-02 | 13.5 | Phosphorus |
| Indian | IND-01 | 0.355 | Phosphorus |
| Jackson Blue | JAC-01 | 11.8 | Phosphorus |
| Juniper/Fern Hammock | JUN-02 | 4.08 | Nitrogen |
| Lafayette Blue | LAF-01 | 2.28 | Phosphorus |
| Little River | LTR-01 | 1.56 | Nitrogen |
| Madison Blue | MAD-01 | 18.6 | Phosphorus |
| Manatee | MNT-01 | 0.209 | Phosphorus |
| Ponce de Leon | PON-01 | 0.764 | Phosphorus |
| Rainbow Spring | RAI-01 | 19.8 | Co-limited |
| Silver Glen | SGL-01 | 1.92 | Nitrogen |
| Silver Glen | SLV-01 | 0.269 | Phosphorus |
| Troy | TRY-01 | 1.77 | Phosphorus |
| Turtle | TUT-01 | 0.235 | Phosphorus |
| Volusia Blue | VOL-01 | 23.2 | Nitrogen |
| Wacissa | WAC-01 | 17.6 | Nitrogen |
| Wakkulla | WAK-01 | 12.2 | Phosphorus |
| Weeki Wachee | WEK-01 | 7.51 | Undetermined |
| Washington | WGT-01 | 6.51 | Co-limited |
| Willford | WIL-01 | 5.75 | Co-limited |
| Wekiwa | WKW-01 | 47.9 | Co-limited |

Appendix A.12
Fall and spring epiphyte and epipelon thickness measured on x scale, where 0 indicates none, 0.5 indicates slimy, 1 tracks, 2 indicates 0.5-1 mm, 3 indicates 1-5 mm, 4 indicates 5-20 mm.

| | Fall | | Spring | |
|---|---|---|---|---|
| Site code | Epiphytes | Epipelon | Epiphytes | Epipelon |
| ALE-01 | 3.6 | | 2.9 | 3.0 |
| ALE-02 | 3.4 | 2.6 | 3.5 | 0.5 |
| CHA-01 | 2.2 | 3.0 | 1.2 | 1.2 |
| CHA-02 | 2.3 | | 1.0 | |
| CHA-03 | 4.4 | 4.1 | 4.0 | 0.5 |
| CYP-01 | 0.7 | 2.9 | | |
| FAN-01 | 1.6 | 1.0 | | |
| GAI-01 | 1.2 | 1.8 | 1.5 | 2.4 |
| GAI-02 | 1.1 | 1.9 | 1.0 | 0.5 |
| GUR-01 | 2.8 | 2.0 | | |
| HOM-01 | 1.4 | 2.0 | 0.1 | |
| ICH-01 | 1.2 | 2.2 | 1.5 | 1.4 |
| ICH-02 | 3.0 | | 3.1 | 3.0 |
| ICH-03 | 2.1 | | 2.2 | 1.8 |
| ICH-04 | 2.2 | 4.0 | 3.9 | |
| ICH-05 | 2.4 | 3.9 | 4.2 | 3.0 |
| ICH-06 | 2.3 | 3.7 | 3.3 | |
| ICH-07 | 2.2 | | 2.4 | 3.0 |
| ICH-08 | 1.6 | 0.7 | 1.6 | |
| IND-01 | | 3.8 | | |
| JAC-01 | 1.2 | 2.2 | 1.9 | 3.4 |
| JAC-02 | 2.1 | | 3.1 | 3.3 |
| JAC-03 | 3.3 | | 3.7 | |
| JUN-01 | 3.1 | 1.8 | 3.2 | 2.0 |
| JUN-02 | | 3.0 | | 2.0 |
| JUN-03 | 2.3 | 2.1 | | 2.2 |
| JUN-04 | 2.4 | | 2.7 | 1.0 |
| LAF-01 | | 2.5 | | |
| LTR-01 | 3.0 | 2.5 | | |
| MAD-01 | 3.0 | 3.5 | | |
| MNT-01 | 1.7 | | | |
| PON-01 | 1.3 | 1.5 | 2.1 | 0.5 |
| RAI-01 | 2.7 | 3.0 | 3.2 | |
| RAI-02 | 2.5 | 3.2 | 3.5 | 3.0 |
| RAI-03 | 2.1 | 2.7 | | |
| RAI-04 | 1.9 | | 3.8 | |
| SGL-01 | 2.7 | 2.3 | 2.8 | |
| SLV-01 | 3.5 | 3.7 | 4.6 | |
| SLV-02 | 3.0 | | 4.3 | |
| SLV-03 | 3.0 | 2.0 | 3.5 | |
| SLV-04 | 2.8 | | 4.2 | |
| SLV-05 | 3.0 | | 3.9 | |
| TRY-01 | 2.0 | 2.7 | | |
| TUT-01 | | 2.2 | | |
| VOL-01 | 2.6 | 3.4 | 3.0 | 1.3 |
| VOL-02 | 2.9 | 3.0 | 3.0 | 1.0 |
| WAC-01 | 2.1 | | 1.2 | |
| WAC-02 | 2.3 | | 1.9 | |
| WAC-03 | 3.2 | | 1.5 | 3.0 |

| | Fall | | Spring | |
|---|---|---|---|---|
| Site code | Epiphytes | Epipelon | Epiphytes | Epipelon |
| WAK-01 | 3.1 | 2.5 | 1.0 | |
| WAK-02 | 3.1 | | 1.0 | |
| WAK-03 | 2.5 | | 1.4 | |
| WEK-01 | 0.8 | | 1.0 | |
| WEK-02 | 1.0 | 2.0 | 0.6 | |
| WEK-03 | 1.9 | | 0.7 | |
| WEK-04 | 2.2 | | 1.9 | 2.6 |
| WGT-01 | 1.0 | 1.9 | | |
| WIL-01 | 1.3 | 1.3 | | |
| WKW-01 | 2.7 | 2.9 | | 0.5 |
| WKW-02 | 1.2 | 3.0 | 1.0 | |

Appendix A.13
List of algal taxa found in the epiphyte samples.

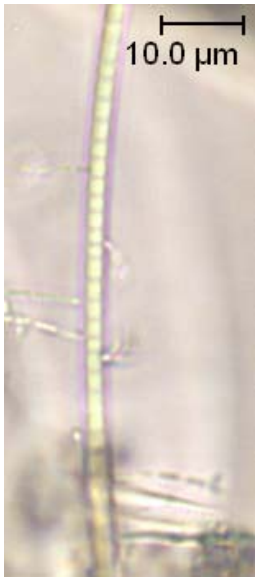
| Taxon | Size | Unit counted | Reference |
|---|---|---|---|
| Anabaena affinis Lemmermann | 4-7.6 wide x 2.8-5.1µm long | cells | Prescott (1982) |
| Chantransia stage of Audouinella violacea or Batrachospermum sp. | 14x58µm | cells | Sheath (2003) |
| Aphanothece sp. Naegeli | 3.5x1.5µm in muciliage | cells | Prescott (1982) |
| Asterococcus sp. Scherffel | 15µm diameter | Cells | Prescott (1982) |
| Calothrix sp. big Agardh | 3.5-5.6µm wide | 10 µm | Prescott (1982) |
| Calothrix sp. small Agardh | 7µm wide | 10 µm | Prescott (1982) |
| Chamaesiphon sp. Braun & Grunow | 2-2.2x2.2-7µm | cells | Prescott (1982) |
| Chroococcus sp. Naegeli | 8x6µm | cells | Prescott (1982) |
| coccoid Cyanophyta 2-4 µm in diameter | 2-4µm diameter | cells | |
| coccoid Cyanophyta 2 µm in diameter | 2µm diameter | cells | |
| coccoid Cyanophyta 4-6 µm in diameter | 4-6µm diameter | cells | |
| coccoid Chlorophyta 8 µm in diameter | 8µm diameter | cells | |
| Chroococcidiopsis fissurarum (Ercegovic) Komarek et Anagnostidies | 2-3µm diameter | cells | Komárek (1999) |
| Compsopogon sp. Montagne in Bory & St. Vincent et Durieaux | 20x23µm | cells | Sheath (2003) |
| Cyanosarcina sp. Kovacik | 3.2µm diameter | cells | Komárek (1999) |
| Euglena sp. Ehrenberg | 20x14µm | cells | Prescott (1982) |
| Chlorophyta zoospore | 15µm diameter | cells | |
| Gomphosphaeria sp. Kuetzing | 3x3.7µm | cells | Prescott (1982) |
| Hydrococcus rivularis Kutz. | 2-4µm diameter | cells | Komárek (1999) |
| Heteroleibleinia sp. (Geitler) L. Hoffmann | 1.8µm wide | 10 µm | Komárek (2003) |
| Homeothrix varians Geitler | 1.6-2.2µm wide | 10 µm | Starmach (1963) |
| Hydrocoleum sp. Kutzing | 5-6.9µm wide | 10 µm | Komárek (2003) |
| Leibleinia sp. (Gomont) L. Hoffmann | 1µm wide | 10 µm | Komárek (2003) |
| Leptolyngbya sp. Anagnostidis et Komarek | 2µm wide | 10 µm | Komárek (2003) |
| Lyngbya majuscula Harvey | 40-50µm wide | 10 µm | Starmach (1963) |
| Lyngbya sp. Agardh | 10.2µm wide | 10 µm | Prescott (1982) |
| Microcystis aeruginosa Kuetzing of Geitler | 4µm diameter | cells | Prescott (1982) |
| Mougeotia sp. (C.A. Agardh) Wittrock | 9.6-10.7x39-91.7µm | cells | Prescott (1982) |
| Nodularia sp. Mertens | 9.3-13.4µm wide | 10 µm | Prescott (1982) |
| Oedogonium sp.1 Link | 5.9-13x16-32 | cells | Prescott (1982) |
| Oedogonium sp.2 Link | 26-28x67-131 | cells | Prescott (1982) |
| Oscillatoria_cf_terebriformis | 3.4-4.1µm wide | 10 µm | |
| Oscillatoria granulata Gardner (Phormidium granulatum) | 3.5-4.8µm wide | 10 µm | Prescott (1982) |
| Oscillatoria splendida Greville small pieces | 2-2.3µm wide | 10 µm | Prescott (1982) |
| Oscillatoria limosa (Roth) C. A. Agardh | 11-15µm wide | 10 µm | Prescott (1982) |
| Oscillatoria Mougeotii (Kutzing) Forti | 7.4µm wide | 10 µm | Starmach (1963) |
| Oscillatoria nigra Vaucher | 7-8µm wide | 10 µm | Prescott (1982) |
| Oscillatoria simplicissima Gomont | 8-8.8µm wide | 10 µm | Starmach (1963) |
| Oscillatoria splendida Greville | 2-2.3µm wide | 10 µm | Prescott (1982) |

| Taxon | Size | Unit counted | Reference |
|---|---|---|---|
| Pediastrum tetras (Ehr.) Ralfs | 4x6µm | cells | Prescott (1982) |
| Oscillatoria cf. tenuis C. A. Agardh | 8µm wide | 10 µm | Prescott (1982) |
| Oscillatoria cf. articulata (Phormidium cf. articulatum) | 2.5µm wide | 10 µm | Prescott (1982) |
| Oscillatoria minnesotensis (Phormidium minnesotense) | 1.8-2µm wide | 10 µm | Whitford & Schumacher (1984) |
| Polysiphonia subtilissima | 70x107µm | cells | Sheath (2003) |
| Rhabdoderma sp. Schmidle & Lauterborn | 2x10µm | cells | Prescott (1982) |
| Scenedesmus acutus Meyen | 2x11µm | cells | Dillard (1989) |
| Scenedesmus bernardii G.M. Smith | 6.3x21µm | cells | Dillard (1989) |
| Scenedesmus bijuga (Turp.) Lagerheim | 3x11µm | cells | Prescott (1982) |
| Scenedesmus dispar (Brebisson) Rabenhorst | 7x14.5µm | cells | Dillard (1989) |
| Scenedesmus ecornis (Ehrenberg) Chodat | 2-2.8x4.1-7.2µm | cells | Dillard (1989) |
| Scenedesmus quadricauda var. quadrispina (Chodat) G.M. Smith | 2.5x10µm | cells | Prescott (1982) |
| Scenedesmus soli Hortobagyi | 5.5x11.8µm | cells | Dillard (1989) |
| Scytonematopsis sp. E. Kiseleva | 18.7µm wide | 10 µm | Komárek (2003) |
| Stigeoclonium tenue (Agardh) Kuetzing | 8.7x14.4µm | cells | Prescott (1982) |
| Spirogyra sp. Link | 25-37x86-103µm | cells | Prescott (1982) |
| Spirulina sp. Turpin | 1µm wide | 10 µm | Prescott (1982) |
| Tetraedron minimum (Braun) Hansgirg | 3.5-4.3x4.7-6µm | cells | Prescott (1982) |
| Ulothrix sp. Kuetzing | 17.4x29µm | cells | Prescott (1982) |
| Xenococcus sp. Thuret | 4-7µm diameter | cells | Komárek (1999) |
| Xenococcus sp. Thuret | 2µm diameter | cells | Komárek (1999) |
| Synechocystis aquatilis | 2µm diameter | cells | Komárek (1999) |
| Synechocystis salina | 2-3µm diameter | cells | Komárek (1999) |

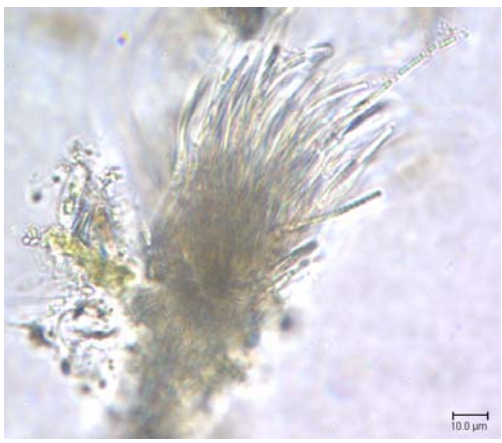
# Anabaena affinis



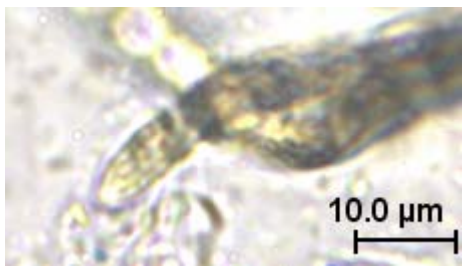
# Homeothrix varians



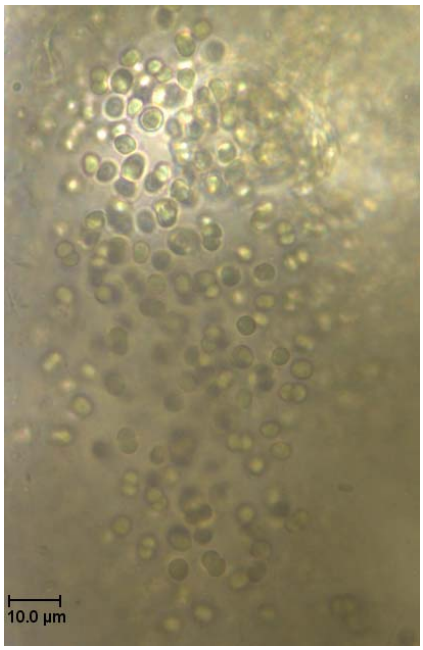


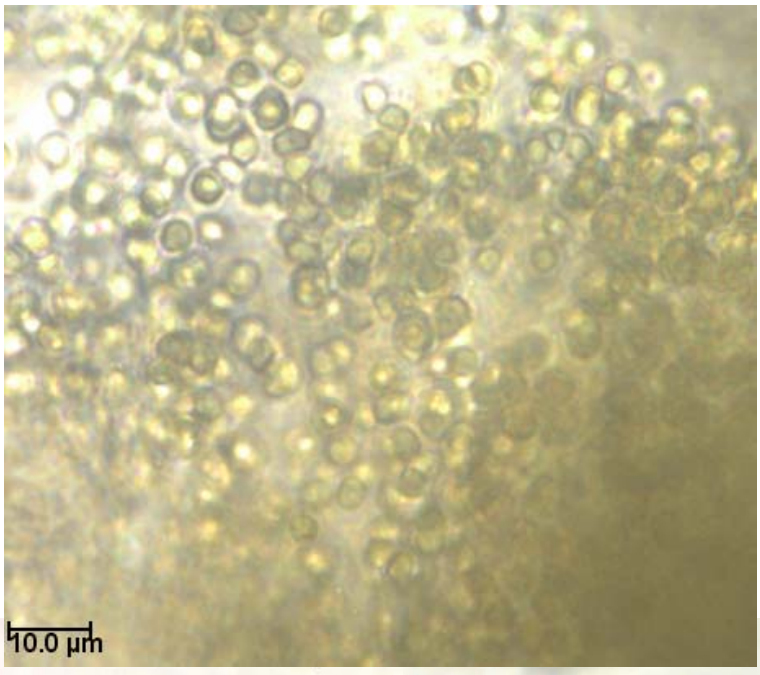


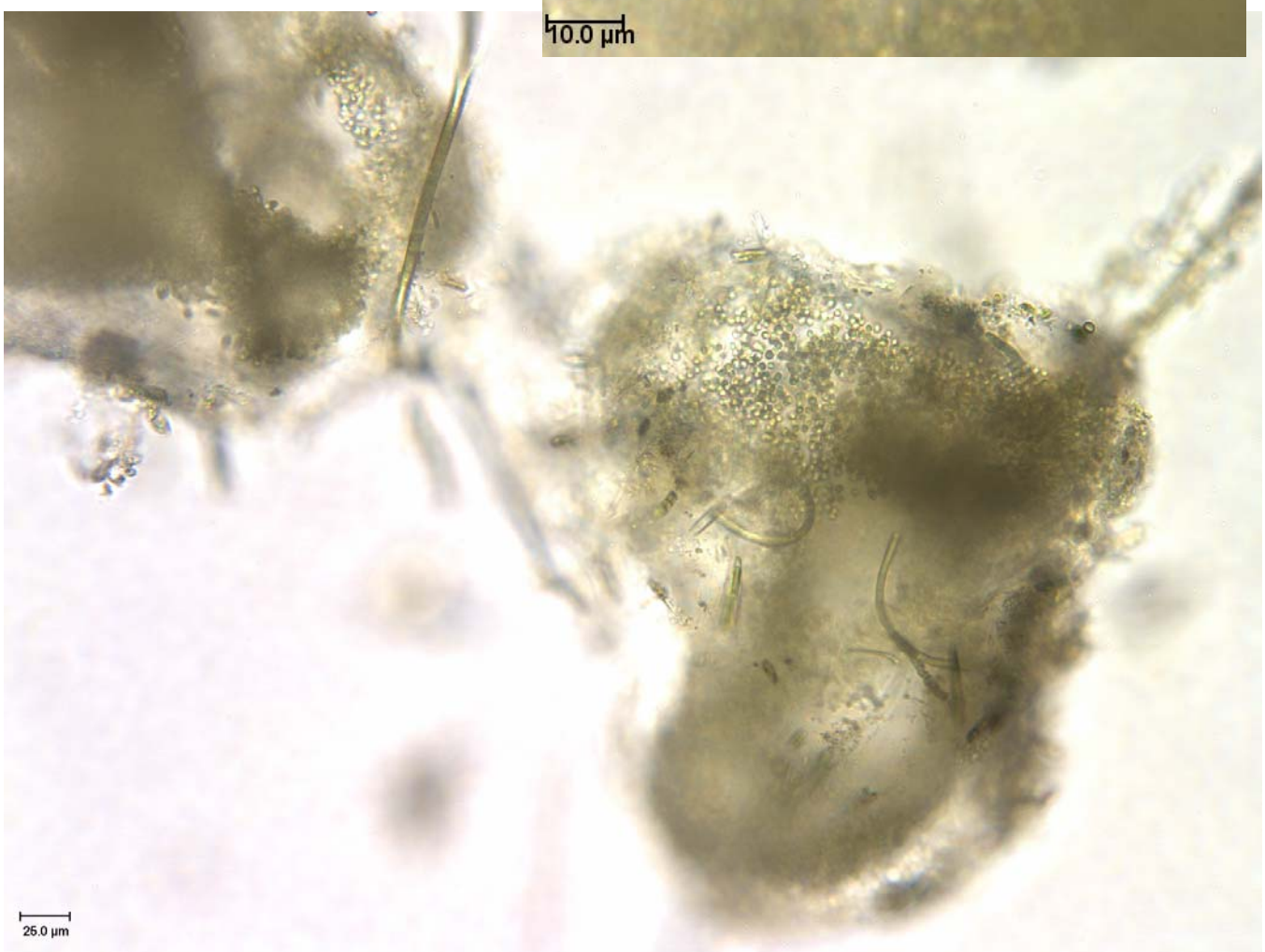

# Hydrocoleum sp.

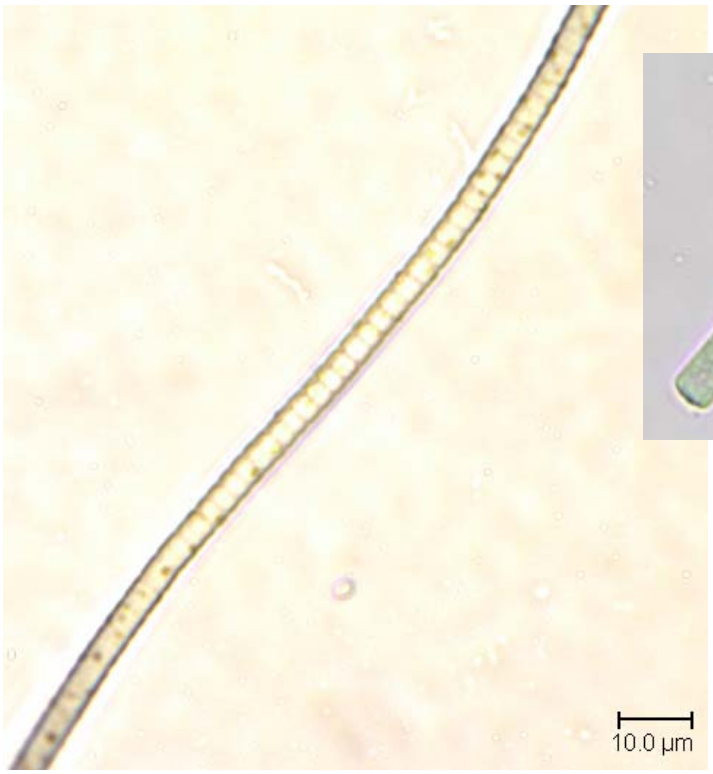

# Microcystis aeruginosa

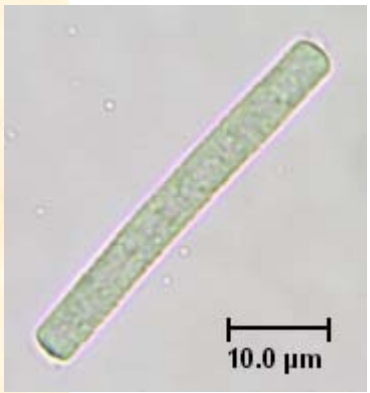


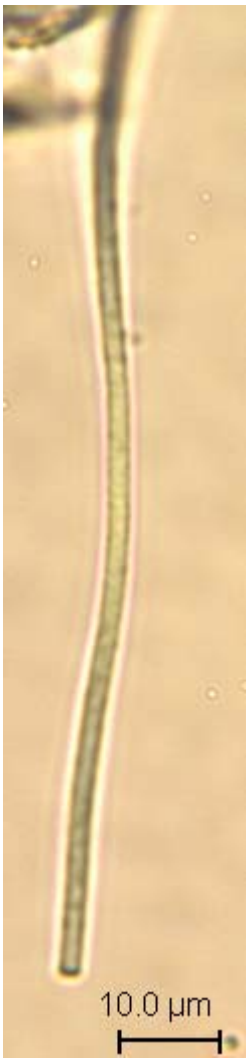
# Oscillatoria granulata (Phormidium granulatum)



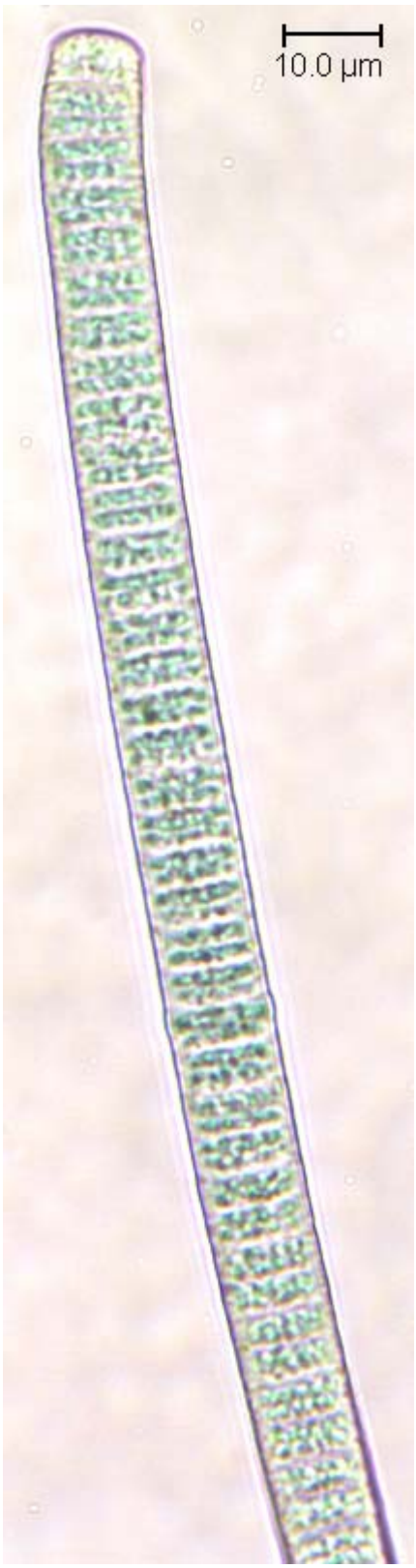



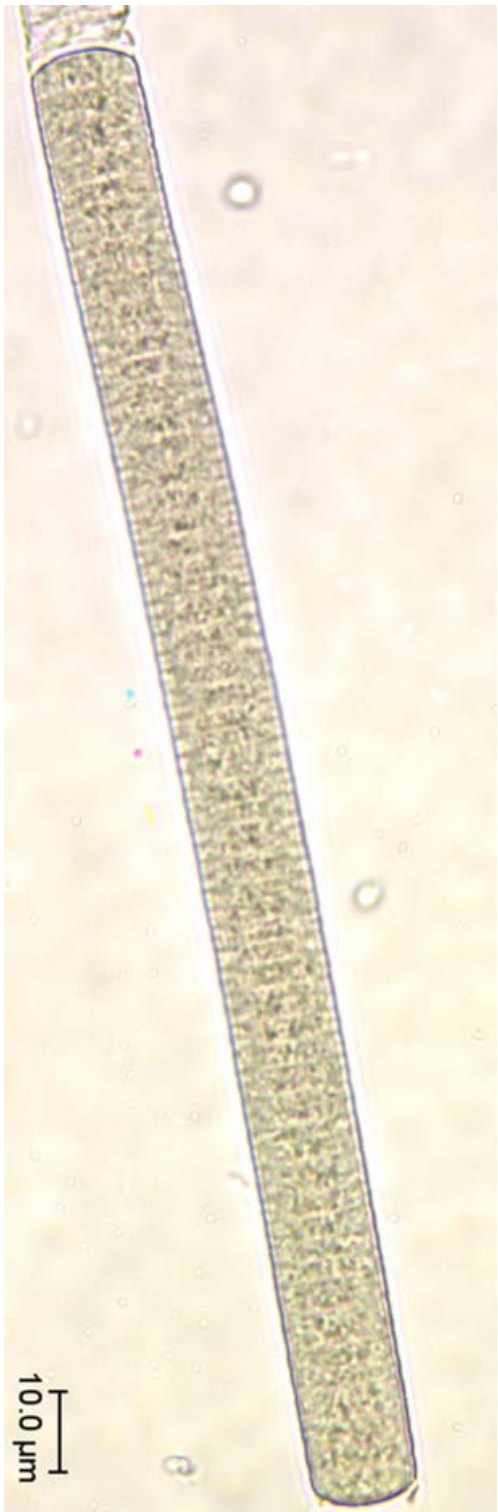


# Oscillatoria splendida (Leptolyngbia splendida)


# Oscillatoria limosa



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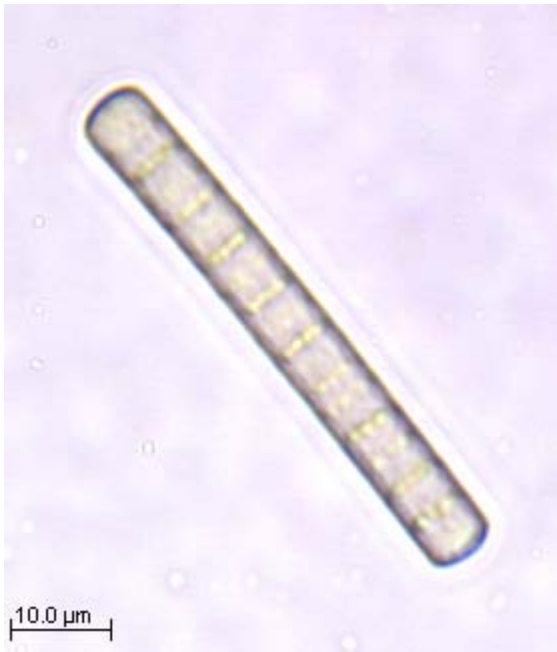
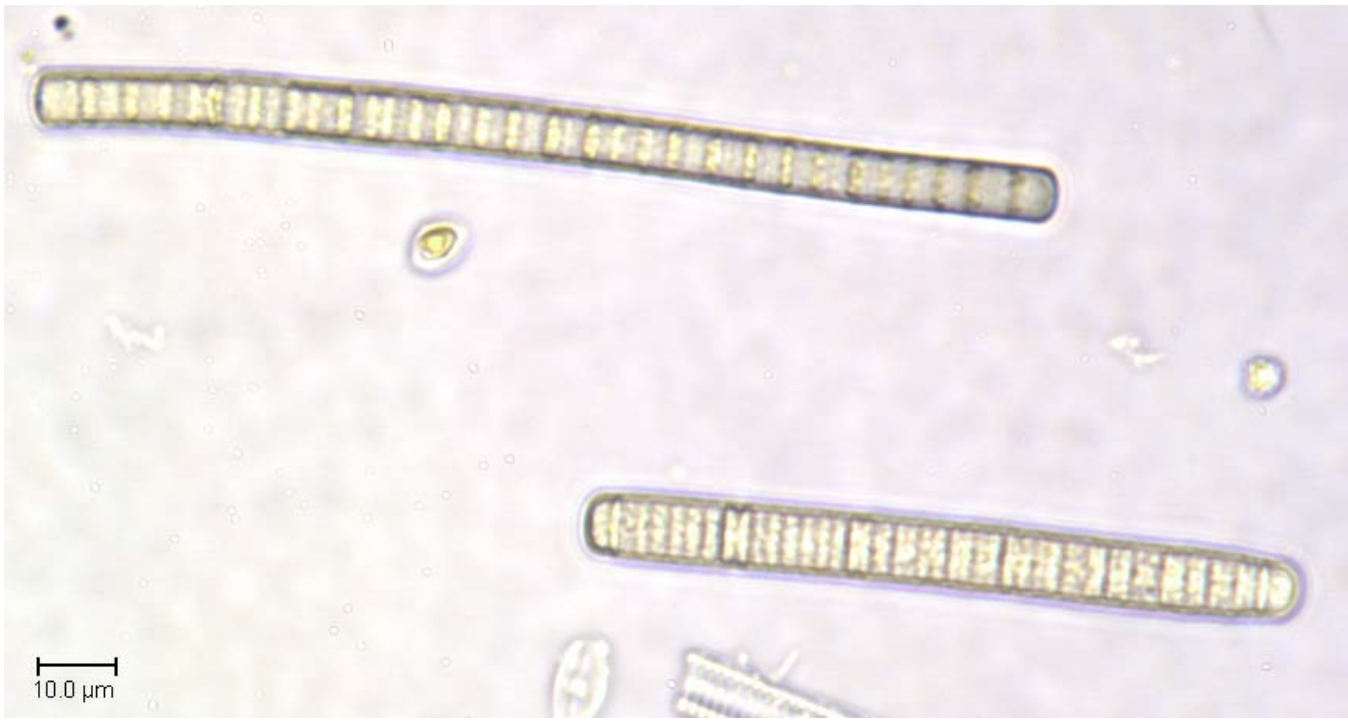
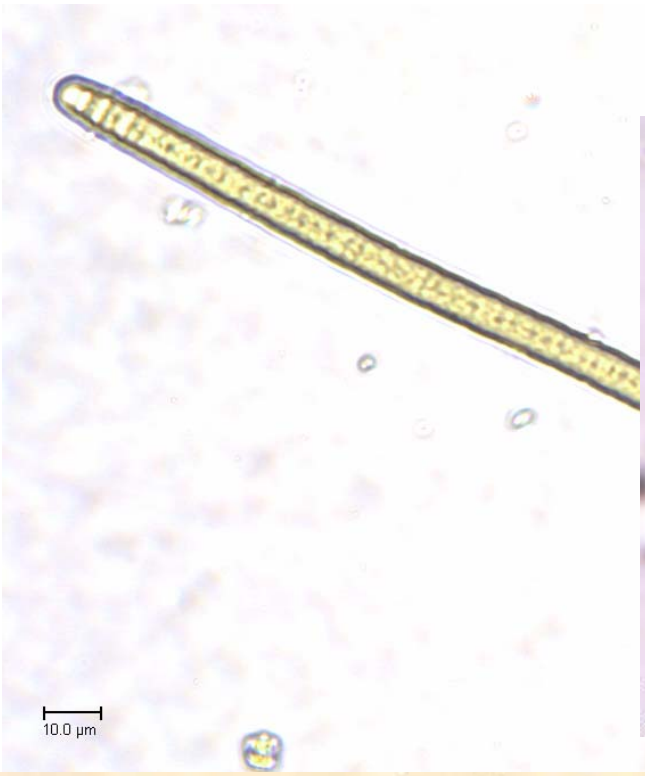
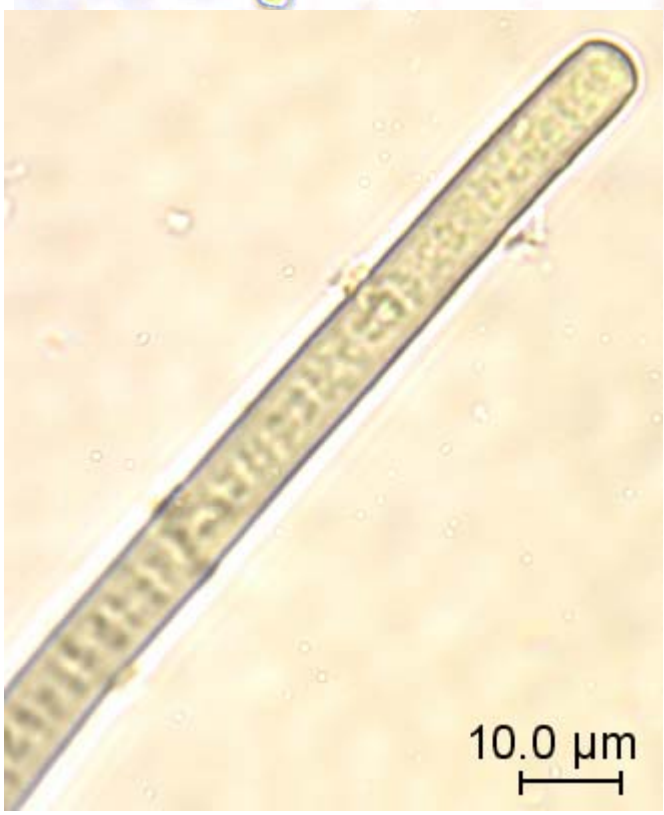


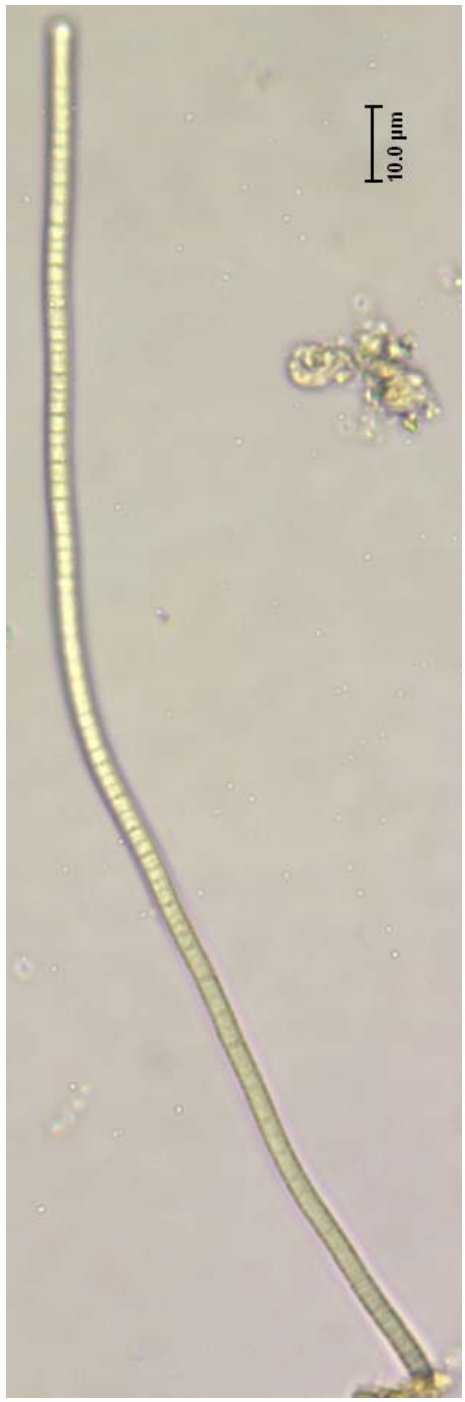
# Oscillatoria simplicissima







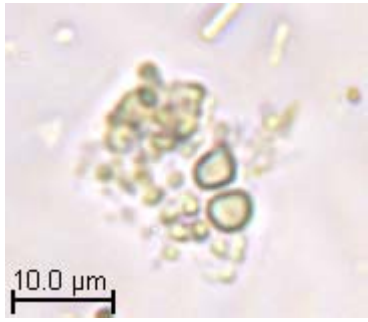

Oscillatoria cf. articulata (Phormidium cf. articulatum)

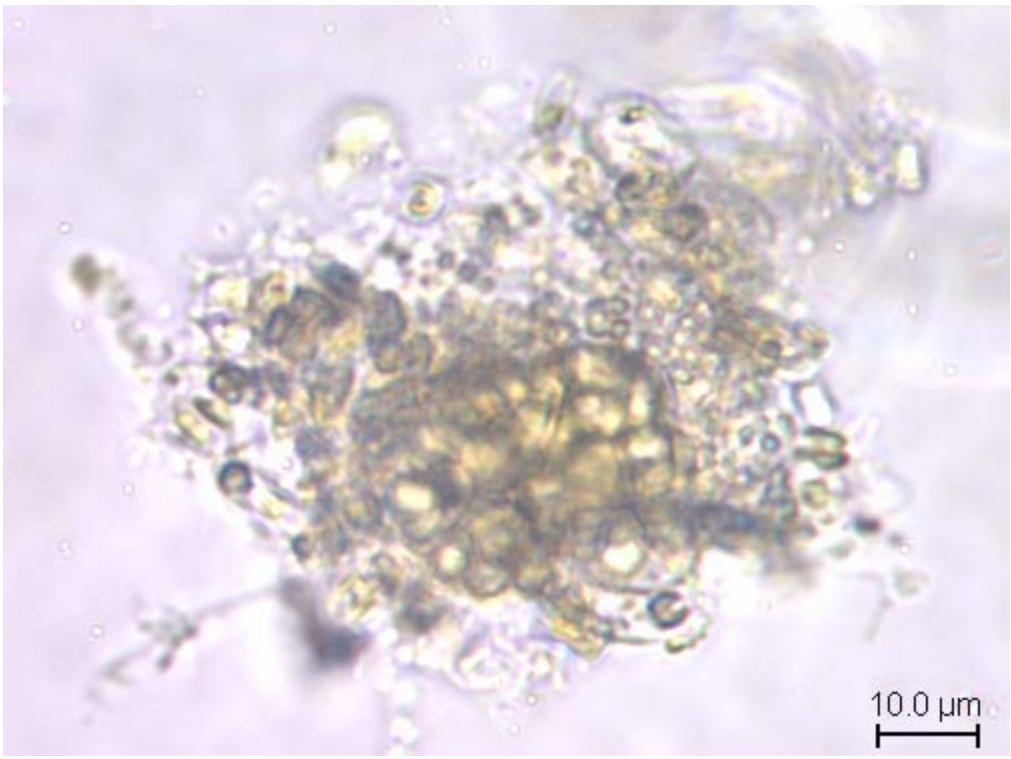
Oscillatoria minnesotensis (Phormidium minnesotense)


# Polysiphonia subtilissima

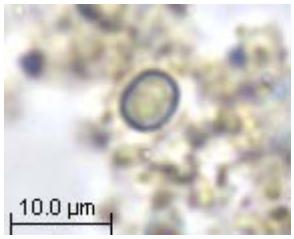
Xenococcus sp.



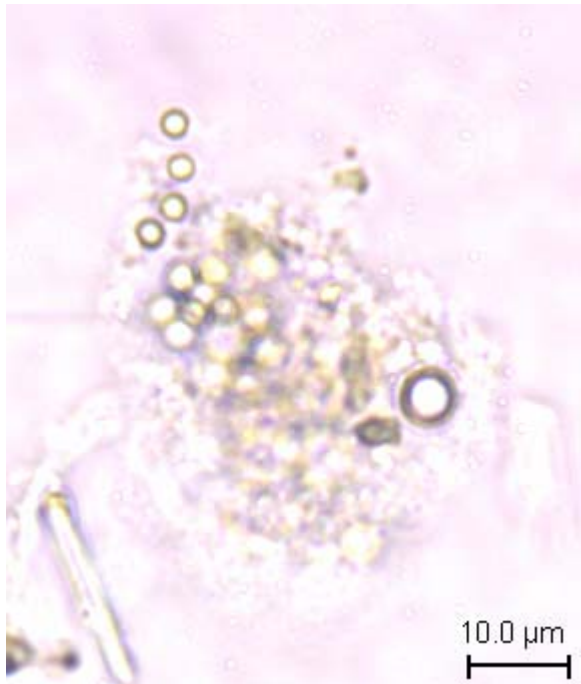


# Synechocystis aquatilis



# Synechocystis salina

Appendix A.15

Epiphytic algal cell or 10 µm long unit density per $mm^2$ of aquatic plant leaf surface area for spring and fall samples.
For type of unit counted refer to Appendix 14. Based on Access Epiphytes_soft_counts qryEpiphytes_with_TaxaNames_Cells_mm2.

| | Spring sampling | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taxa / Long_site_cod | ALE-01-03283 | ALE-02-03283 | CHA-01-04013 | CHA-02-04013 | CHA-03-04013 | GAI-01-04263 | GAI-02-04263 | HOM-01-04023 |
| Anabaena affinis Lemmermann | 3800 | 1404 | | | | | | |
| Aphanothece sp_ Naegeli | | | | | | | | |
| Asterococcus sp_ Scherffel | | | | | | | | |
| Calothrix sp_ big Agardh | | | | | | | | |
| Calothrix sp_ small Agardh | | | | | | | | |
| Chamaesiphon sp_ Braun & Grunow | | | | | | | | |
| Chantransia stage of Audouinella violacea or Batrachospermum sp_ | | | | | | | | |
| Chlorophyte zoospore | | | | | | | | |
| Chroococcidiopsis fissurarum (Ercegovic) Komarek et Anagnostidie | | | | | | | | |
| Chroococcus sp_ Naegeli | | | | | | | | |
| coccoid Chlorophyta 8 µm in diameter | | | | | | | | |
| coccoid Cyanophyta 2 µm in diameter | | | 1331 | 471 | 2763 | | | |
| coccoid Cyanophyta 2-4 µm in diameter | | | | | | | | |
| coccoid Cyanophyta 4-6 µm in diameter | | | | | | | | |
| Compsopogon sp_ Montagne in Bory & St_ Vincent et Durieaux | | | | | | | | |
| Cyanosarcina sp_ Kovacik | | | | | | | | |
| dead diatom | 1358 | 2486 | 2810 | 2356 | 2619 | 207 | 467 | 213 |
| Euglena sp_ Ehrenberg | | | | | | | | |
| Gomphosphaeria sp_ Kuetzing | | | | | | | | |
| Heteroleibleinia sp_ (Geitler) L_ Hoffmann | | | | | | | | |
| Homeothrix varians Geitler | 1807 | 3637 | | 219 | 361 | | 531 | |
| Hydrococcus rivularis Kutz_ | | | | | | | | |
| Hydrocoleum sp_ Kutzing | | | | | | | | |
| Leibleinia sp_ (Gomont) L_ Hoffmann | | | | | | | | |
| Leptolyngbya sp_ Anagnostidis et Komarek | | | | | | | | |
| live diatom | 3406 | 14066 | 7888 | 4746 | 4786 | 266 | 1331 | 512 |
| Lyngbya majuscula Harvey | | | | | | | | |
| Lyngbya sp_ Agardh | | | | | | | | |
| Microcystis aeruginosa Kuetzing of Geitler | | | | | | | | |
| Mougeotia sp_ (C_A_ Agardh) Wittrock | | 23 | | | | | | |
| Oedogonium sp_1 Link | | | | | | | | |
| Oedogonium sp_2 Link | | | | 50 | | | | |
| Oscillatoria cf_ articulata (Phormidium cf_ articulatum) | | | | | | | | |
| Oscillatoria cf_ tenuis C_ A_ Agardh | | | | | | | | |
| Oscillatoria granulata Gardner (Phormidium granulatum) | | | | 219 | | 100 | | |
| Oscillatoria limosa (Roth) C_ A_ Agardh | 11 | 4788 | | | | 59 | 3549 | |
| Oscillatoria minnesotensis (Phormidium minnesotense) | 131 | 230 | | 34 | | | 32 | |
| Oscillatoria Mougeotii (Kutzing) Forti | | | | | | | | |
| Oscillatoria nigra Vaucher | | | | | | | | |
| Oscillatoria simplicissima Gomont | 920 | 2647 | | | | | 334 | |
| Oscillatoria splendida Greville | 690 | 1312 | | | 18 | 59 | | 418 |
| Oscillatoria splendida Greville small pieces | | | | | | | | |
| Oscillatoria_cf_terebriformis | 624 | 207 | | | | | | |
| Pediastrum tetras (Ehr_) Ralfs | | 92 | | | | | | |
| Polysiphonia subtilissima | | | | | | | | |
| Rhabdoderma sp_ Schmidle & Lauterborn | | | | | | | | |
| Scenedesmus acutus Meyen | | | | | | | | |
| Scenedesmus bernardii G_M_ Smith | | | | | | | | |
| Scenedesmus bijuga (Turp_) Lagerheim | | | | | | | | |
| Scenedesmus dispar (Brebisson) Rabenhorst | | | | | | | | |
| Scenedesmus ecornis (Ehrenberg) Chodat | | 92 | | | | | | |
| Scenedesmus quadricauda var_ quadrispina (Chodat) G_M_ Smith | | | | | | | | |
| Scenedesmus soli Hortobagyi | | | | | | | | |
| Scytonematopsis sp_ E_ Kiseleva | | | | | | | | |
| Spirogyra sp_ Link | 153 | | | | | | | |
| Spirulina sp_ Turpin | | | | | | | | |
| Stigeoclonium tenue (Agardh) Kuetzing | 405 | | | | | | | |
| Synechocystis aquatilis | | | | | | | | 146 |
| Synechocystis salina | | 1381 | 148 | | | | | |
| Tetraedron minimum (Braun) Hansgirg | | | | | | | | |
| Ulothrix sp_ Kuetzing | | | | | | | | |
| Xenococcus sp_ Thuret | 285 | 46 | 518 | 724 | 8110 | 24 | | |

| ICH-01-03163 | ICH-02-03173 | ICH-03-03173 | ICH-04-04233 | ICH-05-04233 | ICH-06-04233 | ICH-07-04243 | ICH-08-04213 | JAC-01-04193 | JAC-02-04193 | JAC-03-04183 | JUN-01-03273 | JUN-03-03273 88 | JUN-04-03263 | PON-01-04263 | RAI-01-04043 | RAI-02-04043 | RAI-03-04043 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 298 | | | | | | | | | 805 | | | | | | |
| | | 595 | | | 456 | 288 | | | | | | | | | | 202 | |
| | | | | | | | | | | 4475 | 862 | | | | | | |
| | | 1355 | 23361 667 | 74 | 2357 | 3455 | 49 | | 3520 35 | 4556 | 10806 747 632 | 292 598 | 25 | | 476 | 555 | 659 1007 |
| 4994 | 1441 | 1950 | 22026 | 3673 | 1198 | 1484 | 292 | 7243 | 2962 | 11716 | 2644 | 1533 | 1730 | 106 | 4016 | 3227 | 5623 |
| 2983 | 3989 | 12330 3207 | 79761 | 2819 74 | 3536 | 5360 | 14 | 8691 | 13871 | 2237 | 26152 | 307 | | 6 | 3094 | 2194 | 347 |
| 24581 | 4660 | 6116 | 82431 | 9646 | 4658 | 3788 | 597 | 44614 | 7075 | 17208 | 9426 | 3372 | 2378 | 296 | 7616 | 6758 | 11419 |
| | | | | | | | 14 | | | | | | | | | | |
| | | | 9011 | 445 | | | | | | | | | | | | | |
| | | | | | | | | | 1324 | 1383 | | | | | | | |
| | 59 | 2711 33 | 3671 2336 | 3821 74 | 951 | | | | 174 | 1587 | | | | | | | |
| | | | 19690 | 3190 | 380 | 443 | 2 | | | 1220 1302 | 3966 | 438 | 57 | | 3659 | 227 | 382 |
| | 7721 | | 21025 | 5120 | 1445 | | | | 105 941 | | | | | 19 | | 126 | |
| | | | | | | | 75 393 | | 314 | | 287 | | | 5 | 2082 | 706 | 1458 |
| | | | | | | | | | | | | | 172 | | | | |
| | | | | | | | | | | 325 | | | | | | | |
| | | | | | | | | | | 488 | | | | 92 | | | |
| 584 | | | | | | 399 | | 579 | 139 | 814 1220 | | | | | | | |
| | 474 1185 | | 1335 | 482 | 152 | | 17 | | | | | | | | | | |
| | | | | | | | | | | 41 | | | | | | | |
| | | 1752 | 3671 | 185 | 418 | 1063 | 54 | 11153 | 139 | 81 | 517 | 2073 | 180 | 69 | 446 | 328 | 521 |

| RAI-04-04043 | SGL-01-03263 | SLV-01-04033 | SLV-02-04033 | SLV-03-04033 | SLV-04-04033 | SLV-05-04033 | VOL-01-03293 | VOL-02-03293 | WAC-01-04073 | WAC-02-04073 | WAC-03-04073 | WAK-01-04083 | WAK-02-04083 | WAK-03-04083 | WEK-03-03243 | WEK-04-04223 | WKW-01-03303 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7699 | | | | | | | | | | | | | | | | |
| | 12764 | | 2751 | | | | | | | | | | | | | | |
| 58 | | | | | | 1288 | | | 182 | | | | | | | 23 | |
| | | | | 1772 | 376 | | | | | | | | | | | | 235 |
| 543 | | | | | | | | | 394 | 225<br>676 | 494 | | | | | 40 | 17 |
| | | 535 | 577 | | | | | | | | | 672 | 51 | 325 | 1078 | 62 | |
| | | | | | | | 10 | 3<br>7 | | | | | | | | | |
| 2985 | 11751 | 10398 | 4570 | 20886 | 10895 | 14487 | 175 | 15 | 1668 | 7550 | 6921 | 5715 | 233 | 1085 | 4150 | 685 | 105 |
| | | | | | | | | | 182 | | | | | | | | |
| 465 | 41736 | 1376 | 4304 | | | 2254 | 14 | | | 6761 | 395 | 560 | 67 | 5687 | 229 | 40 | 373 |
| 11726 | 36671 | 26759 | 11626 | 39873 | 32872 | 46037 | 666 | 69 | 9035 | 32680 | 29168 | 18938 | 428 | 2867 | 10293 | 1636 | 1169 |
| | | | | | | | | | | | | | | | | | 13 |
| 698 | 31403 | 765 | 3195 | | | 805 | 153 | 7<br>2 | | 6085 | 989 | 168 | | | | 17 | 163 |
| 155 | 1418<br>7091 | 229<br>1606 | 710<br>932 | | | | 118<br>6 | | 152 | | 1088 | | | | | 11 | 603<br>25 |
| | | | | | | | | | | 225 | | | | | | | |
| | | | 177 | 1013 | 939 | | 16 | | | | | | | | | 17 | 4 |
| | 810 | | 355 | 506 | 376 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 11 | 42<br>17 |
| | | | 5103<br>222 | 3924<br>253 | 376 | 1288 | | | | 1127 | | | 2 | | | 170 | 352 |
| 601 | 203 | 841 | 3506 | 5696 | 5166 | 15936 | 24 | 4 | 212 | 451 | 1186 | | | 449 | 556 | 91 | 683 |

WKW-
02-
03303

1399

5920

9579

38424

323

1184

| | Fall sampling | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Long_site_code | ALE-01-10293 | ALE-02-10293 | CHA-01-11023 | CHA-02-110203 | CHA-03-110203 | CYP-01-09243 | CYP-01Q-09243 | FAN-01-10023 | GAI-01-09253 | GAI-02-09253 |
| Anabaena affinis Lemmermann | | 270 | | | | | | | | |
| Aphanothece sp_ Naegeli | | | | | | | 1 | | | |
| Asterococcus sp_ Scherffel | | | | | | | | | | |
| Calothrix sp_ big Agardh | | 225 | | | | | | | | |
| Calothrix sp_ small Agardh | | | | | | | | | | |
| Chamaesiphon sp_ Braun & Grunow | | | | 1 | | 2 | | | | |
| Chantransia stage of Audouinella violacea or Batrachospermum sp_ | | | | | | | | | | |
| Chlorophyte zoospore | | 7 | | | | | | | | |
| Chroococcidiopsis fissurarum (Ercegovic) Komarek et Anagnostidie | | | | | | | | | | |
| Chroococcus sp_ Naegeli | | | | | | | | | | |
| coccoid Chlorophyta 8 µm in diameter | | | | | | | | | | |
| coccoid Cyanophyta 2 µm in diameter | | 22 | | | | | | | | |
| coccoid Cyanophyta 2-4 µm in diameter | | | | | | | | | | |
| coccoid Cyanophyta 4-6 µm in diameter | | | | 31 | | | | | | |
| Compsopogon sp_ Montagne in Bory & St_ Vincent et Durieaux | | | | | | | | | | |
| Cyanosarcina sp_ Kovacik | | | | | | | | | | |
| dead diatom | 324 | 855 | 386 | 205 | 715 | 16 | 10 | 938 | 119 | 65 |
| Euglena sp_ Ehrenberg | | | | | | | | | | |
| Gomphosphaeria sp_ Kuetzing | | | | | | | | | | |
| Heteroleibleinia sp_ (Geitler) L_ Hoffmann | | | | | | | | | | |
| Homeothrix varians Geitler | | 1552 | | | 2144 | 62 | 6 | | 42 | 22 |
| Hydrococcus rivularis Kutz_ | | | | | | | | | | |
| Hydrocoleum sp_ Kutzing | | | | | | 15 | | | | |
| Leibleinia sp_ (Gomont) L_ Hoffmann | | | | | | | | | | |
| Leptolyngbya sp_ Anagnostidis et Komarek | | | | | | | | | | |
| live diatom | 1083 | 3771 | 1008 | 342 | 2073 | 64 | 44 | 13342 | 389 | 587 |
| Lyngbya majuscula Harvey | | | | | | | | | | |
| Lyngbya sp_ Agardh | | | | | | | | | | |
| Microcystis aeruginosa Kuetzing of Geitler | | | | | | 15 | 5 | | | |
| Mougeotia sp_ (C_A_ Agardh) Wittrock | | | | | | | | | | |
| Oedogonium sp_1 Link | | | 10 | | | | | | | |
| Oedogonium sp_2 Link | | 60 | 40 | 8 | | | | | | |
| Oscillatoria cf_ articulata (Phormidium cf_ articulatum) | | | | | | | | | | |
| Oscillatoria cf_ tenuis C_ A_ Agardh | | | | | | | | | | |
| Oscillatoria granulata Gardner (Phormidium granulatum) | | 705 | 3 | | 55 | 2 | 1 | 256 | | |
| Oscillatoria limosa (Roth) C_ A_ Agardh | 211 | 390 | | | | | | | | 4 |
| Oscillatoria minnesotensis (Phormidium minnesotense) | | 270 | 93 | 10 | | 0 | | | | |
| Oscillatoria Mougeotii (Kutzing) Forti | | | | | | | | | | |
| Oscillatoria nigra Vaucher | | | | | | | | | | |
| Oscillatoria simplicissima Gomont | 403 | 15 | | | | | | | | |
| Oscillatoria splendida Greville | 41 | 517 | 10 | 4 | 683 | | | | | |
| Oscillatoria splendida Greville small pieces | | | | | | | | | | |
| Oscillatoria_cf_terebriformis | | | | | | | | | | |
| Pediastrum tetras (Ehr_) Ralfs | | | | | | | | | | |
| Polysiphonia subtilissima | | | | | | | | | | |
| Rhabdoderma sp_ Schmidle & Lauterborn | | | | | | | | | | |
| Scenedesmus acutus Meyen | | | | | | | | | | |
| Scenedesmus bernardii G_M_ Smith | | | | | | | | | | |
| Scenedesmus bijuga (Turp_) Lagerheim | | | | | | | | | | |
| Scenedesmus dispar (Brebisson) Rabenhorst | | | | | | | | | | |
| Scenedesmus ecornis (Ehrenberg) Chodat | | | 23 | | | 1 | | | | |
| Scenedesmus quadricauda var_ quadrispina (Chodat) G_M_ Smith | | | | | | | | | | |
| Scenedesmus soli Hortobagyi | | | | | | | | | | |
| Scytonematopsis sp_ E_ Kiseleva | | | | | | | | | | |
| Spirogyra sp_ Link | | | | | | | | | | |
| Spirulina sp_ Turpin | | | | | | | | | | |
| Stigeoclonium tenue (Agardh) Kuetzing | | | | | 39 | 2 | | | | |
| Synechocystis aquatilis | | | | | | | | | | |
| Synechocystis salina | | | | | | | | | | |
| Tetraedron minimum (Braun) Hansgirg | | | | | | | | | | |
| Ulothrix sp_ Kuetzing | | | | | | | | | | |
| Xenococcus sp_ Thuret | 28 | | | 4 | 369 | 4 | 7 | | 29 | 9 |

| GUR-01-10023 | HOM-01-11043 | ICH-01-11223 | ICH-02-11223 | ICH-03-11223 | ICH-01Q-11223 | ICH-04-11093 | ICH-05-11093 | ICH-06-11093 | ICH-07-11083 | ICH-08-11083 | JAC-01-09243 | JAC-02-09233 | JAC-03-09233 | JUN-01-10313 | JUN-02-10313 | JUN-03-10313 | JUN-04-10313 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 191 | 152 | | | | | | | | | |
| | | | | | | | | | | 145 | | 284 | | | | | |
| | | | | | | | | | 905 | | | | | | | | |
| | | | | | | | | | | | | | 271 | | | | |
| | | | | | | | 509 | | 1736 | | | 344 | 3455 | | 485 | 702 | |
| | | | | | | | | | | | | 90 | 283 | | 249 | | 69 |
| | | | | | | | 1399 | | 709 | | | | | | | | 101 |
| 2096 | 65 | 335 | 2084 | 1972 | 656 | 843 | 4260 | 3272 | 856 | 805 | 719 | 867 | 1674 | 1757 | 1141 | 1502 | 597 |
| 237 | | | | | | | | | | | | 15 | | | | | |
| | | | 74 | | | | | | | | | | | | | | |
| 3243 | 68 | | 7928 | 448 | | 2970 | 2353 | | 2347 | 2705 | 2372 | 5068 | 495 | 2960 | 760 | 1599 | 37 |
| | | | | | | | | | | | | | | 3219 | | | |
| 395 | | | | | | | | | | | | | | | | | |
| 12339 | 178 | 2043 | 6923 | 12952 | 3757 | 5615 | 17423 | 23587 | 5868 | 3285 | 4457 | 2795 | 3290 | 3644 | 3960 | 3028 | 881 |
| | | | | | | | | | | | | | 83 | | | | |
| | | | | | | | | | | | | | 318 | | 105 | | |
| 475 | 12 | | 2903 | | | | | 2511 | 1002 | | 359 | 852 | | | 2124 | | |
| 316 | | | | | | 192 | 445 | | | | | 314 | | | | | |
| 989 | 5 | | | | | | 64 | | | | 230 | 90 | 271 | | | | 45 |
| | | | | | | | 6422 | | | | | 703 | | | | | |
| 40 | | | | | | 767 | | | 122 | 483 | | | | | | | 4 |
| | | 25 | | | | | | | | | 115 | 15 | | 55 | | 121 | |
| 158 | | | | | | | 763 | | | | | | 94 | | | | |
| | | | | | | | | | | | | | 71 | | | | |
| | | | | | | 862 | | | | | | | | | | | |
| | | | | | | | | | 147 | | | | | | | | |
| | | | | | | | | | | | | | 24 | | | | |
| 158 | 4 | | 4578 | 986 | 36 | 479 | 318 | | 1149 | 1079 | | 194 | 83 | 2664 | | 1514 | 16 |

| LTR-01-09283 | MAD-01-09293 | MNT-01-10033 | PON-01-09223 | RAI-01-11123 | RAI-02-11123 | RAI-03-11123 | RAI-04-11123 | SGL-01-10303 | SGL-01Q-10303 | SLV-01-11133 | SLV-02-11133 | SLV-03-11133 | SLV-04-11133 | SLV-05-11123 | TRY-01-09293 | TUT-01-09303 | VOL-01-11203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 796 | 190 | | | | | | | | |
| | | | | | | | | 304 | | | | | | | | | |
| | | | | | | | | 101 | | | | | | | | | |
| | 12 | | 2 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 104 | | 34 | | | |
| | | | | | 304 | | 90 | 62 | | | 667 | 446 | 620 | 67 | | | |
| | | | | | | | | | | 138 | | | | | | | 81 |
| | | 48 | 13 | 200 | 262 | 21 | | 39 | 36 | | 56 | 30 | | 34 | 17 | | |
| 396 | 706 | 328 | 46 | 5140 | 3066 | 821 | 690 | 655 | 470 | 1652 | 1557 | 2557 | 2359 | 2053 | 407 | 204 | 187 |
| 83 | 151 | | 16 | 4439 | 1781 | 95 | 265 | 1358 | 1658 | 2395 | 1575 | 1472 | 1080 | 292 | 262 | 171 | 302 |
| 3037 | 3902 | 2966 | 187 | 9412 | 5593 | 1605 | 1975 | 1569 | 994 | 7846 | 4281 | 4401 | 9276 | 4027 | 1701 | 1038 | 984 |
| | | | | | | | 245 | | | | | | | | | | |
| | | | | | | | | 78 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 44 |
| | | | | | | | | | | | | | | 22 | | | |
| | 764 | | | | | | | | | | | | | | | | |
| | 463 | | | | | | | | | | | | | | | | |
| | | | 13 | | | | | | | 138 | 1557 | | | | | 47 | |
| 19 | | | | | | | | | | | | | | 22 | | | |
| 19 | | | 2 | 1001 | | | | 8 | | | 315 | 74 | | 34 | 162 | 149 | 34 |
| | | | 3 | 100 | | | | | 5 | | 816 | | | | | 80 | 62 |
| | | | | 200 | 124 | | | | 27 | | | 59 | | | | 138 | 56 |
| | | | | | | | | | | 28 | | | | | | | |
| | | | 2 | | | | 16 | | | | | | | | 17 | | |
| 89 | | | | | | | | 23 | | | | | | | | | 146 |
| | | | 3 | | 28 | 8 | 35 | 117 | 68 | 303 | 56 | | 120 | | | 25 | 12 |

| VOL-02-11203 | WAC-01-09273 | WAC-02-09273 | WAC-03-09273 | WAK-01-10013 | WAK-02-10013 | WAK-03-10013 | WEK-01-11053 | WEK-02-11053 | WEK-03-11043 | WEK-04-11053 | WGT-01-09263 | WIL-01-09253 | WKW-01-11213 | WKW-02-11213 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 67 | | | | | | | | | | | |
| | | | | | | | | 17 | 8 | | | | 20 | |
| | | | | | | | 143 | 153 | 41 | 118 | | 19 | 34 | |
| 103 | | | | | | | | 84 | 68 | 152 | 1044 | 31 | 61 | 19 |
| 117 | 1512 | 2635 | 784 | 4045 | 2137 | 2489 | 103 | 101 | 195 | 1686 | 651 | 182 | 437 | 273 |
| 6 | | 788 | 42 | 1146 | 765 | 172 | 5 | 50 | 2 | 928 | 2020 | 10 | 362 | 88 |
| 451 | 9202 | 6773 | 3533 | 32694 | 7491 | 6480 | 204 | 114 | 435 | 4789 | 2940 | 23<br>405 | 1815 | 1143 |
| 49 | | | | | | 129<br>107 | | | | 34 | 22 | | 34 | |
| | 2349 | 1084<br>25<br>1921 | 413 | 3303 | 112 | | 10 | | | | 79 | 101 | | 28<br>100 |
| 14 | | 714 | 17<br>481 | 809 | | | 24 | 4 | | 270 | 191 | | 82 | 66<br>336 |
| | | | | 1416 | | | | | | | | | | |
| | | | | 270 | | | | | | | 135<br>45 | | | |
| | | | | | 180 | | | 69 | | | | | | |
| 526 | | | | | | | | | | | | | 498 | |
| | | | | | | | | | | 135 | | | | 47 |
| 12 | 193 | | | | | 172 | 30 | 55 | | 84 | | | | |

Appendix A.16
Average aquatic plant percent cover in the fall and in the spring. Blank indicates site was not sampled.

| Site code | Fall % cover | Spring % cover |
|---|---|---|
| ALE-01 | 21.0 | 23.5 |
| ALE-02 | 58.0 | 58.0 |
| CHA-01 | 37.0 | 60.5 |
| CHA-02 | 23.5 | 65.4 |
| CHA-03 | 79.0 | 82.7 |
| CYP-01 | 16.0 | |
| FAN-01 | 13.6 | |
| GAI-01 | 18.1 | 18.5 |
| GAI-02 | 56.8 | 67.9 |
| GUR-01 | 32.1 | |
| HOM-01 | 56.8 | 61.7 |
| ICH-01 | 55.6 | 55.6 |
| ICH-02 | 87.7 | 84.0 |
| ICH-03 | 91.4 | 82.2 |
| ICH-04 | 93.8 | 96.3 |
| ICH-05 | 70.4 | 80.2 |
| ICH-06 | 69.1 | 85.2 |
| ICH-07 | 86.4 | 88.9 |
| ICH-08 | 79.0 | 96.3 |
| IND-01 | 0.0 | |
| JAC-01 | 51.9 | 58.0 |
| JAC-02 | 77.8 | 72.8 |
| JAC-03 | 63.0 | 39.5 |
| JUN-01 | 37.0 | 37.0 |
| JUN-02 | 1.2 | 0.0 |
| JUN-03 | 4.9 | 1.2 |
| JUN-04 | 7.4 | 6.2 |
| LAF-01 | 0.0 | |
| LTR-01 | 4.9 | |
| MAD-01 | 3.7 | |
| MNT-01 | 3.7 | |
| PON-01 | 19.8 | 16.0 |
| RAI-01 | 86.4 | 80.2 |
| RAI-02 | 71.6 | 66.7 |
| RAI-03 | 82.7 | 84.0 |
| RAI-04 | 63.0 | 85.2 |
| SGL-01 | 27.2 | 27.2 |
| SLV-01 | 79.0 | 79.0 |
| SLV-02 | 80.2 | 72.8 |
| SLV-03 | 76.5 | 65.4 |
| SLV-04 | 86.4 | 84.0 |
| SLV-05 | 80.2 | 79.0 |
| TRY-01 | 1.2 | |
| TUT-01 | 2.5 | |
| VOL-01 | 9.9 | 2.5 |
| VOL-02 | 13.6 | 4.9 |
| WAC-01 | 93.8 | 88.9 |
| WAC-02 | 91.4 | 92.6 |
| WAC-03 | 53.1 | 71.6 |

| Site code | Fall % cover | Spring % cover |
|---|---|---|
| WAK-01 | 70.4 | 51.9 |
| WAK-02 | 77.8 | 50.6 |
| WAK-03 | 63.0 | 25.9 |
| WEK-01 | 7.4 | 1.2 |
| WEK-02 | 25.9 | 9.9 |
| WEK-03 | 28.4 | 27.2 |
| WEK-04 | 32.1 | 55.6 |
| WGT-01 | 30.9 | |
| WIL-01 | 51.9 | |
| WKW-01 | 7.4 | 4.9 |
| WKW-02 | 32.1 | 13.6 |

Appendix A.17 Fall

Aquatic plants percent cover of individual taxa in the fall. For plant taxa codes refer to Table 1.3.

| Site code | A | Br | Ce | Ch | Cj | Ct | Ed | H | Hy | Le | Lu | M | Mo | N | N2 | Nu | Pi | Pn | Ps | R | Sg | Sk | Sl | Sm | St | T | Tr | U | Val | W | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALE-01 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 10 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| ALE-02 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 49 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 6 | 0 | 0 |
| CHA-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 4 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| CHA-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 1 | 0 |
| CHA-03 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 4 | 0 | 0 | 0 | 2 | 0 | 19 | 0 | 2 | 0 |
| CYP-01 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FAN-01 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAI-01 | 0 | 0 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAI-02 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GUR-01 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HOM-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ICH-01 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 21 | 2 | 21 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| ICH-02 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ICH-03 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| ICH-04 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| ICH-05 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ICH-06 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 6 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| ICH-07 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 38 | 1 | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 |
| ICH-08 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 30 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 |
| IND-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JAC-01 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 4 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 |
| JAC-02 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 2 | 23 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 |
| JAC-03 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| JUN-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 |
| JUN-02 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JUN-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| JUN-04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 0 |
| LAF-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LTR-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAD-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MNT-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| PON-01 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RAI-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 4 | 32 | 35 | 0 | 0 | 0 |

| Site code | A | Br | Ce | Ch | Cj | Ct | Ed | H | Hy | Le | Lu | M | Mo | N | N2 | Nu | Pi | Pn | Ps | R | Sg | Sk | Sl | Sm | St | T | Tr | U | Val | W | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAI-02 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| RAI-03 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| RAI-04 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 |
| SGL-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 |
| SLV-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 |
| SLV-02 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SLV-03 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| SLV-04 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 |
| SLV-05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| TRY-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TUT-01 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| VOL-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VOL-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAC-01 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 77 | 0 | 5 | 0 | 0 | 0 | 5 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 |
| WAC-02 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 28 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| WAC-03 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 42 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| WAK-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| WAK-02 | 0 | 2 | 0 | 2 | 0 | 2 | 10 | 70 | 0 | 19 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAK-03 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 38 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEK-01 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEK-02 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| WEK-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEK-04 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| WGT-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WIL-01 | 0 | 0 | 20 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WKW-01 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WKW-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 17 | 0 | 0 | 0 | 2 | 11 | 2 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Appendix A.17 Spring

Aquatic plants percent cover of individual taxa in the spring. For plant taxa codes refer to Table 1.3.

| Site_code | A | Ce | Ch | Cj | Co | Ct | Ed | H | Hp | Hy | Le | Lu | M | Mo | N | N2 | Nu | Pi | Pl | Pn | Pp | Ps | Pu | R | Rc | Sg | Sk | Sl | Sm | St | T | Tr | U | Val | W | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALE-01 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 0 |
| ALE-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 0 |
| CHA-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 |
| CHA-02 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 33 | 1 | 0 | 1 | 0 | 12 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 0 |
| CHA-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 51 | 0 | 0 | 0 |
| GAI-01 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAI-02 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HOM-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ICH-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 17 | 0 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| ICH-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ICH-03 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| ICH-04 | 0 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| ICH-05 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| ICH-06 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| ICH-07 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 1 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 2 |
| ICH-08 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 11 | 11 | 1 | 14 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 1 |
| JAC-01 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 |
| JAC-02 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 37 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 |
| JAC-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 |
| JUN-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 |
| JUN-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JUN-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| JUN-04 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| PON-01 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RAI-01 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 1 | 12 | 15 | 0 | 0 | 0 |
| RAI-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 |
| RAI-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 1 |
| RAI-04 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 2 | 0 | 63 | 0 | 0 | 0 |
| SGL-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 |
| SLV-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 0 | 0 | 0 |
| SLV-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 0 |
| SLV-03 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 |
| SLV-04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 0 | 0 | 0 |

| Site_code | A | Ce | Ch | Cj | Co | Ct | Ed | H | Hp | Hy | Le | Lu | M | Mo | N | N2 | Nu | Pi | Pl | Pn | Pp | Ps | Pu | R | Rc | Sg | Sk | Sl | Sm | St | T | Tr | U | Val | W | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SLV-05 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | 0 |
| VOL-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VOL-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAC-01 | 0 | 9 | 0 | 0 | 4 | 0 | 1 | 58 | 0 | 0 | 15 | 0 | 0 | 0 | 14 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 6 | 0 | 0 | 0 | 0 | 19 | 2 | 2 | 11 |
| WAC-02 | 0 | 5 | 0 | 0 | 0 | 0 | 58 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 5 | 0 |
| WAC-03 | 0 | 36 | 0 | 0 | 0 | 1 | 0 | 56 | 0 | 0 | 27 | 0 | 0 | 0 | 14 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| WAK-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAK-02 | 0 | 0 | 2 | 0 | 0 | 0 | 42 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAK-03 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEK-01 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEK-02 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 |
| WEK-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEK-04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 4 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 |
| WKW-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WKW-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |