

| Substrate | | | | | | | WQ | | | | | | |
|-----------|-------|------|-------|--------------|-----------------------|---------------------|---------------------------|----------|------------|-----------|------|-------------|------------------------------------|
| Date | Time | Site | Point | Depth - ft | Dominant | Subdominant | Photo Nos | Temp - C | SpC - mS/c | DO - mg/L | pH | Depth - ft | Turb - NTU |
| 7/30/2018 | | 2a | A | | cobble | gravel | 1834, 1835 | | | | | | |
| 7/30/2018 | | 2a | B | | cobble | gravel | 1836, 1837 | | | | | | |
| 7/30/2018 | | 2a | C | | cobble | gravel | 1838, 1839 | | | | | | |
| 7/30/2018 | | 2a | D | | cobble | gravel | 1840, 1841 | | | | | | |
| 7/30/2018 | | 2a | E | | cobble | gravel | 1842, 1843 | | | | | | |
| 7/30/2018 | | 2b | F | 10 | gravel, fine | sand | | | | | | | |
| 7/30/2018 | | 2b | G | 10 | gravel, fine | sand | | | | | | | |
| 7/30/2018 | | 2b | H | 7 | cobble | gravel | | 26.23 | 0.446 | 7.52 | 8.81 | 2.2 | 0.4 |
| 7/30/2018 | | 2b | I | | 9 cobble | gravel, coarse | | | | | | | |
| 7/30/2018 | | 2b | J | 12 | boulder, small | cobble | | | | | | | |
| 7/30/2018 | | 2a | F | 10 | gravel (coarse) | NA | | | | | | | |
| 7/30/2018 | | 2a | G | 12 | sand | NA | | | | | | | |
| 7/30/2018 | | 2a | H | 17 | gravel (coarse) | organic material | | 26.2 | 0.439 | 6.96 | 8.8 | 1.5 | 6.4 |
| 7/30/2018 | | 2a | I | 15 | rip rap | organic material | | | | | | | |
| 7/30/2018 | 12:00 | 2a | J | 15 | rip rap | organic material | | | | | | | |
| 7/30/2018 | | 2b | A | | sand | coarse gravel | 1824, 1825 | | | | | | |
| 7/30/2018 | | 2b | B | | sand | organic material | 1826, 1827 | | | | | | |
| 7/30/2018 | | 2b | C | | sand | coarse gravel | 1828, 1829 | | | | | | |
| 7/30/2018 | | 2b | D | | sand | organic material | 1830, 1831 | | | | | | |
| 7/30/2018 | | 2b | E | | sand | organic material | 1832, 1833 | | | | | | |
| 7/31/2018 | 8:01 | 4A | | | Bedrock-shale | NA | 155-2659 | | | | | | |
| 7/31/2018 | | 4B | | | coarse gravel (shale) | Silty mud | 155-2657 | | | | | | |
| 7/31/2018 | | 4C | | | coarse gravel (shale) | sand | 155-2656 | | | | | | |
| 7/31/2018 | | 4D | | | coarse gravel (shale) | sand | 155-2655 | | | | | | |
| 7/31/2018 | | 4E | | | Bedrock-shale | NA | 155-2658 | | | | | | |
| 7/31/2018 | 8:03 | 4F | | 23.5 | silt | NA | no photo | | | | | | |
| 7/31/2018 | | 4G | | 21 | silt | coarse gravel | ipad photo 8:21 am | | | | | | |
| 7/31/2018 | | 4H | | 15 | plant | NA | no photo | | | | | | |
| 7/31/2018 | | 4I | | 15 | silt | NA | no photo | 26.3 | 0.458 | 9.15 | 9.55 | 1.9 | 6.2 |
| 7/31/2018 | | 4J | | 17.5 | silt | NA | no photo | | | | | | |
| 7/31/2018 | 9:12 | 5A | | | gravel coarse | gravel fine | 2662/2663 | | | | | | |
| 7/31/2018 | | 5B | | | gravel coarse | gravel fine | 2665/2666 | | | | | | |
| 7/31/2018 | | 5C | | | gravel coarse | gravel fine | 2667/2668 | | | | | | |
| 7/31/2018 | | 5D | | | gravel coarse | gravel fine | no photo | | | | | | |
| 7/31/2018 | | 5E | | | gravel coarse | gravel fine | ipad 9:33 am (same as 5J) | | | | | | |
| 7/31/2018 | | 5F | | 11.5 | aquatic veg (algae) | NA | | | | | | | |
| 7/31/2018 | 9:15 | 5G | | 17.5 | coarse gravel (shale) | NA | ipad photo 9:15:00 AM | | | | | | |
| 7/31/2018 | 9:16 | 5H | | 13.8 | aquatic veg | coarse gravel | ipad photo 9:16:00 AM | | | | | | |
| 7/31/2018 | 9:23 | 5I | | 11 | fine smelly silt | Aquatic veg | ipad photo 9:23:00 AM | | | | | | |
| 7/31/2018 | 9:33 | 5J | | too shallow? | coarse gravel (shale) | NA | ipad photo 9:33:00 AM | 26.59 | 0.467 | 9.06 | 9.66 | 2.1 | 8.6 |
| 7/31/2018 | | 9A | | | coarse gravel | fine gravel (shale) | 156-2670 | | | | | | |
| 7/31/2018 | | 9B | | | fine gravel | coarse gravel | 2671 | | | | | | |
| 7/31/2018 | | 9C | | | fine gravel | coarse gravel | 2672 | | | | | | |
| 7/31/2018 | | 9D | | | fine gravel | coarse gravel | 2683 | | | | | | |
| 7/31/2018 | | 9E | | | silt | fines | | | | | | | |
| 7/31/2018 | | 9F | | 5 | silt | fines | ipad photo 10:53 am | | | | | | |
| 7/31/2018 | | 9G | | 12.5 | silt | fines | ipad photo 10:53 am | | | | | | |
| 7/31/2018 | | 9H | | 10.5 | silt | fines | ipad photo 10:53 am | 27.05 | 0.458 | 10.79 | 9.77 | 3 | 11.2 |
| 7/31/2018 | | 9I | | 5.5 | plant? | silt | ipad photo 10:53 am | | | | | | |
| 7/31/2018 | | 9J | | 8.5 | silt | sand | ipad photo 10:53 am | | | | | | |
| 7/31/2018 | 11:47 | 10A | | | sand | coarse gravel | 2674 | | | | | | |
| 7/31/2018 | | 10B | | | sand | coarse gravel | 2675 | | | | | | |
| 7/31/2018 | | 10C | | | sand | coarse gravel | 2676 | | | | | | |
| 7/31/2018 | | 10D | | | sand | coarse gravel | 2677 | | | | | | |
| 7/31/2018 | | 10E | | | fine gravel | coarse gravel | 2678 | | | | | | |
| 7/31/2018 | 11:39 | 10F | | 9.7 | silt | coarse gravel | ipad pic 11:42 | | | | | | |
| 7/31/2018 | | 10G | | 10.6 | silt | coarse gravel | ipad pic 11:43 | | | | | | |
| 7/31/2018 | | 10H | | 10.4 | silt | coarse gravel | ipad pic 11:45 | | | | | | |
| 7/31/2018 | | 10I | | 9.5 | silt (plus plant) | coarse gravel | ipad pic 11:53 | | | | | | |
| 7/31/2018 | | 10J | | 14 | coarse gravel | silt | ipad pic 12:02 | 26.9 | 0.465 | 10.92 | 9.88 | 3 | 7.7 |
| 8/1/2018 | 10:52 | 6A | | | rough bedrock | NA | ipad pic 10:50 | | | | | | |
| 8/1/2018 | | 6B | | | gravel coarse | gravel fine | pic 2696/2697 | | | | | | |
| 8/1/2018 | | 6C | | | gravel fine | sand | pic 2700/2701 | | | | | | |
| 8/1/2018 | | 6D | | | gravel fine | sand | pic 2703/2704 | | | | | | |
| 8/1/2018 | | 6E | | | gravel fine | sand | pic 2706/2707 | | | | | | |
| 8/1/2018 | 10:47 | 6F | | 28 | rough bedrock | NA | ipad pic 10:52 | | | | | | |
| 8/1/2018 | | 6G | | 19 | coarse gravel | fine gravel | ipad pic 10:55 | | | | | | |
| 8/1/2018 | | 6H | | 25 | fine gravel | coarse gravel | ipad pic 11:00 | | | | | | |
| 8/1/2018 | | 6I | | 24 | coarse gravel | silt | ipad pic 11:05 | | | | | | |
| 8/1/2018 | | 6J | | 25 | coarse gravel | silt | ipad pic 11:10 | 26.86 | 0.456 | 11.29 | 9.82 | 2 | 8.7 |
| 8/1/2018 | 11:34 | 3A | | | fine gravel | coarse gravel | pic 2709/2710 | | | | | | |
| 8/1/2018 | | 3B | | | fine gravel | coarse gravel | pic 2711/2712 | | | | | | |
| 8/1/2018 | | 3C | | | fine gravel | sand | pic 2714/2715 | | | | | | |
| 8/1/2018 | | 3D | | | fine gravel | sand | pic 2717/2718 | | | | | | |
| 8/1/2018 | | 3E | | | coarse gravel | fine gravel | pic 2719/2720 | | | | | | |
| 8/1/2018 | | 3F | | 26 | coarse gravel | fine gravel | ipad pic 11:39 am | | | | | | |
| 8/1/2018 | | 3G | | 22 | coarse gravel | fine gravel | ipad pic 11:43 am | | | | | | |
| 8/1/2018 | | 3H | | 22 | small boulder | cobble | ipad pic 11:50 am | | | | | | |
| 8/1/2018 | | 3I | | 16 | coarse gravel | fine gravel | ipad pic 11:55 am | | | | | | |
| 8/1/2018 | | 3J | | 19 | coarse gravel | sand/silt | ipad pic 12:00 pm | 26.72 | 0.462 | 11.04 | 9.71 | 2 | 13.7 |
| 8/1/2018 | 9:00 | 8A | | | sand | gravel, fine | pic 2679/2680 | | | | | | |
| 8/1/2018 | | 8B | | | sand | hardpan | pic 2682/2683 | | | | | | |
| 8/1/2018 | | 8C | | | sand | gravel, fine | pic 2684/2685 | | | | | | |
| 8/1/2018 | | 8D | | | sand | gravel, fine | pic 2686/2687 | | | | | | |
| 8/1/2018 | | 8E | | | sand | gravel, coarse | pic 2688/2689 | | | | | | |
| 8/1/2018 | | 8F | | 6.6 | silt | CPOM= organic veg | ipad pic 8:59am | | | | | | |
| 8/1/2018 | | 8G | | 5.7 | silt | fine gravel | ipad pic 9:02am | | | | | | |
| 8/1/2018 | | 8H | | 6.7 | silt | CPOM | ipad pic 9:05am | | | | | | |
| 8/1/2018 | | 8I | | 12.5 | silt | CPOM | ipad pic 9:11am | | | | | | |
| 8/1/2018 | | 8J | | 17 | coarse gravel | silt | ipad pic 9:16am | 26.88 | 0.455 | 10.79 | 9.9 | 2 | 40.5 |
| 8/1/2018 | 8:14 | 11a | | | bedrock rough | NA | ipad pic 8:30am | | | | | | |
| 8/1/2018 | | 11b | | | bedrock rough | NA | ipad pic 8:26am | | | | | | |
| 8/1/2018 | | 11c | | | sand | coarse gravel | ipad pic 8:14am | | | | | | |
| 8/1/2018 | | 11d | | | bedrock rough | NA | ipad pic 8:34am | | | | | | |
| 8/1/2018 | | 11e | | | bedrock rough | NA | ipad pic 8:38am | | | | | | |
| 8/1/2018 | | 11f | | 30 | coarse gravel | NA | ipad 8:31am | | | | | | |
| 8/1/2018 | | 11g | | 33 | coarse gravel | NA | ipad 8:28am | | | | | | |
| 8/1/2018 | | 11h | | 24.5 | coarse gravel | NA | ipad 8:22am | | | | | | |
| 8/1/2018 | | 11i | | 32 | coarse gravel | NA | ipad 8:34am | | | | | | |
| 8/1/2018 | | 11j | | 28 | coarse gravel | NA | ipad 8:37am | 25.66 | 0.458 | 9.69 | 9.74 | 2.5 | 6.3 |
| 8/2/2018 | 7:31 | 1A | | | small boulder | smooth bedrock | ringo photo 1871 | | | | | | |
| 8/2/2018 | | 1B | | | rough bedrock | NA | ringo photo 1869 | | | | | | |
| 8/2/2018 | | 1C | | | fine gravel | coarse gravel | ringo photo 1856 | | | | | | |
| 8/2/2018 | | 1D | | | rough bedrock | NA | ringo photo 1854 | | | | | | |
| 8/2/2018 | | 1E | | | rough bedrock | NA | ringo photo 1852 | | | | | | |
| 8/2/2018 | | 1F | | 2.5 | small boulder | smooth bedrock | ringo photo 1872 | | | | | | |
| 8/2/2018 | | 1G | | too deep | assumed rough bedrock | | ringo photo 1870 | | | | | | |
| 8/2/2018 | | 1H | | too deep | assumed rough bedrock | | ringo photo 1857 | | | | | | |
| 8/2/2018 | | 1I | | too deep | assumed rough bedrock | | ringo photo 1855 | | | | | | |
| 8/2/2018 | | 1J | | too deep | assumed rough bedrock | | ringo photo 1853 | 19.53 | 0.512 | 9.17 | 8.78 | 2.6 | 0 |
| 8/16/2018 | | 12A | | | fine gravel | silt | 2 photos at 9:58 | | | | | | |
| 8/16/2018 | | 12B | | | fine gravel | coarse gravel | 2 photos at 9:55 | | | | | | |
| 8/16/2018 | | 12C | | | fine gravel | coarse gravel | 2 photos at 9:51 | | | | | | |
| 8/16/2018 | | 12D | | | silt | fine | 2 photos at 9:46 | | | | | | |
| 8/16/2018 | | 12E | | | fine gravel | silt | 2 photos at 9:40 | | | | | | |
| 8/16/2018 | | 12F | | 30 | silt | NA | | | | | | | |
| 8/16/2018 | | 12G | | 40 | silt | fine gravel | | | | | | | |
| 8/16/2018 | | 12H | | 34 | silt | NA | | | | | | | |
| 8/16/2018 | | 12I | | 27 | silt | fine gravel | | | | | | | |
| 8/16/2018 | | 12J | | 28 | silt | fine gravel | | 21.81 | 0.454 | 12 | 9.1 | from bucket | sample as to not cross contaminate |