***GREEN VALLEY 2019 SAMPLING METADATA***

Compiled by T.J. Butts, February 2022

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| **Field Data: 2019\_gv\_nutrients.csv** | | | |
| **Column Name** | **Description** | **Details** | |
| project | project identifier | GVLmonitoring=Water Quality collected for the Iowa Department of Natural Resources Ambient Lakes Monitoring program (https://programs.iowadnr.gov/aquia/) combined with data collected for this project | |
| year | year in which sample was taken | 2019 – 2020 | |
| doy | julian day of year, 2020 | number | |
| siteID |  |  | |
| depthID |  |  | |
| **Column Name** | **Description** | **Units** | **Method** |
| sampleDepth | sampling depths at sampling site | m | na |
| TP\_ugL | total phosphorus concentration | micrograms per liter (µg L-1) | EPA 365.1 v2 (USEPA, 1993) |
| flagTP | data quality flag for TP data | b=below detection limit; value replaced with 0.1 | |
| SRP\_ugL | soluble reactive phosphorus | micrograms per liter (µg L-1) | EPA 365.1 v2 (USEPA, 1993) |
| flagSRP | data quality flag for SRP data | b=below detection limit; value replaced with 0.1 | |
| TN\_mgL | total nitrogen concentration | milligrams per liter (mg L-1) |  |
| flagTN | data quality flag for TN data | b=below detection limit; value replaced with 0.1 | |
| NOx\_mgL | Nitrate (NO3) concentration | milligrams per liter (mg L-1) | second derivative spectroscopy |
| flagNOx | data quality flag for nitrate | b=below detection limit; value replaced with 0.1 | |
| microcystin | ammonium concentration | milligram per liter (mg L-1) |  |
| microcystin\_flag | data quality flag for ammonium | b=below detection limit; value replaced with 0.1 | |