**Lithology symbol number in SWL dataset**

|  |  |
| --- | --- |
| Value | LETT\_SYMB |
| 1 | Qa |
| 2 | Sgyy |
| 3 | Cj |
| 4 | Cju |
| 5 | Dhm |
| 6 | Dhb |
| 7 | Sbs |
| 8 | Sfvy |
| 9 | Sfv |
| 10 | Dcc |
| 11 | Dccd |
| 12 | Dcm |
| 13 | Sbd |
| 14 | Sba |
| 15 | Sbl |
| 16 | Sbv |
| 17 | Qr/Sfv |
| 18 | Czs |
| 19 | Tf |
| 20 | Sgxi |
| 21 | Qr/Sgxi |
| 22 | Cjw |
| 23 | Sbt |
| 24 | Sws |
| 25 | Sc |
| 26 | Sglu |
| 27 | Qr/Sglu |
| 28 | Qa/Sglu |
| 29 | Snmd |
| 30 | Sbsf |
| 31 | Snm |
| 32 | Sh |
| 33 | So |
| 34 | Sgmy |
| 35 | Qr/Sgmy |
| 36 | So(Sh) |
| 37 | ?Sbl |

data$Lithology[data$Lithology %in% 0] <- NA

data$Lithology[data$Lithology %in% 1] <- "Qa"

data$Lithology[data$Lithology %in% 2] <- "Sgyy"

data$Lithology[data$Lithology %in% 3] <- "Cj"

data$Lithology[data$Lithology %in% 4] <- "Cju"

data$Lithology[data$Lithology %in% 5] <- "Dhm"

data$Lithology[data$Lithology %in% 6] <-"Dhb"

data$Lithology[data$Lithology %in% 7] <-"Sbs"

data$Lithology[data$Lithology %in% 8] <-"Sfvy"

data$Lithology[data$Lithology %in% 9] <-"Sfv"

data$Lithology[data$Lithology %in% 10] <-"Dcc"

data$Lithology[data$Lithology %in% 11] <-"Dccd"

data$Lithology[data$Lithology %in% 12] <-"Dcm"

data$Lithology[data$Lithology %in% 13] <-"Sbd"

data$Lithology[data$Lithology %in% 14] <-"Sba"

data$Lithology[data$Lithology %in% 15] <-"Sbl"

data$Lithology[data$Lithology %in% 16] <-"Sbv"

data$Lithology[data$Lithology %in% 17] <-"Qr/Sfv"

data$Lithology[data$Lithology %in% 18] <-"Czs"

data$Lithology[data$Lithology %in% 19] <- "Tf"

data$Lithology[data$Lithology %in% 20] <-"Sgxi"

data$Lithology[data$Lithology %in% 21] <-"Qr/Sgxi"

data$Lithology[data$Lithology %in% 22] <-"Cjw"

data$Lithology[data$Lithology %in% 23] <-"Sbt"

data$Lithology[data$Lithology %in% 24] <- "Sws"

data$Lithology[data$Lithology %in% 25] <-"Sc"

data$Lithology[data$Lithology %in% 26] <-"Sglu"

data$Lithology[data$Lithology %in% 27] <-"Qr/Sglu"

data$Lithology[data$Lithology %in% 28] <-"Qa/Sglu"

data$Lithology[data$Lithology %in% 29] <-"Snmd"

data$Lithology[data$Lithology %in% 30] <-"Sbsf"

data$Lithology[data$Lithology %in% 31] <-"Snm"

data$Lithology[data$Lithology %in% 32] <-"Sh"

data$Lithology[data$Lithology %in% 33] <-"So"

data$Lithology[data$Lithology %in% 34] <-"Sgmy"

data$Lithology[data$Lithology %in% 35] <-"Qr/Sgmy"

data$Lithology[data$Lithology %in% 36] <-"So(Sh)"

data$Lithology[data$Lithology %in% 37] <-"?Sbl"