Synoptic CB: Porewater Sulfide

November 2025 Samples Plate 2 20251110

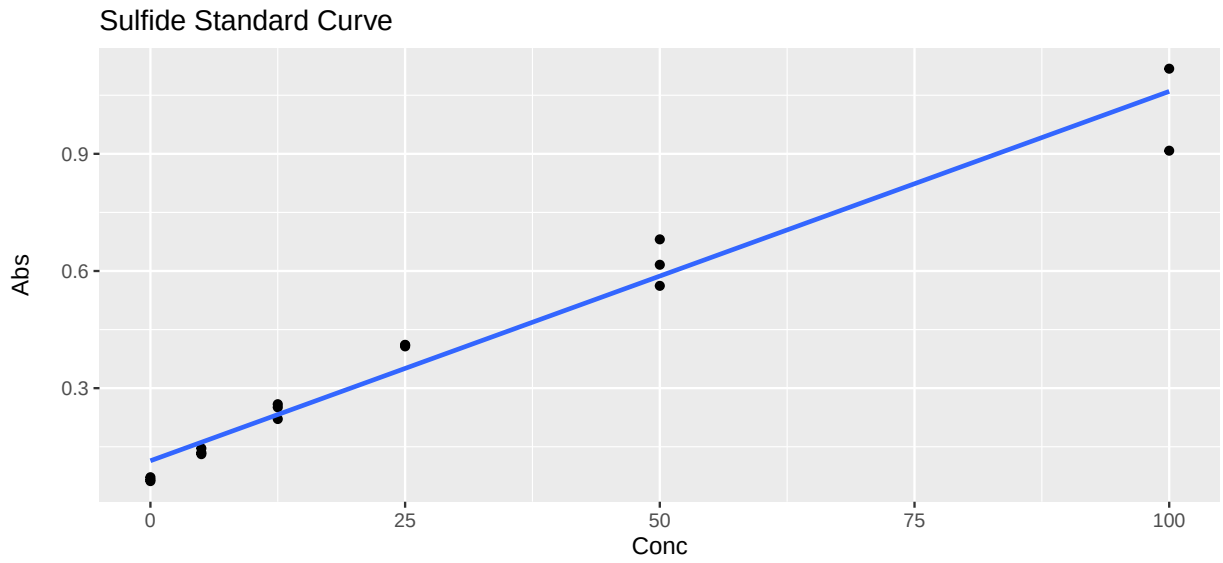
2025-12-01

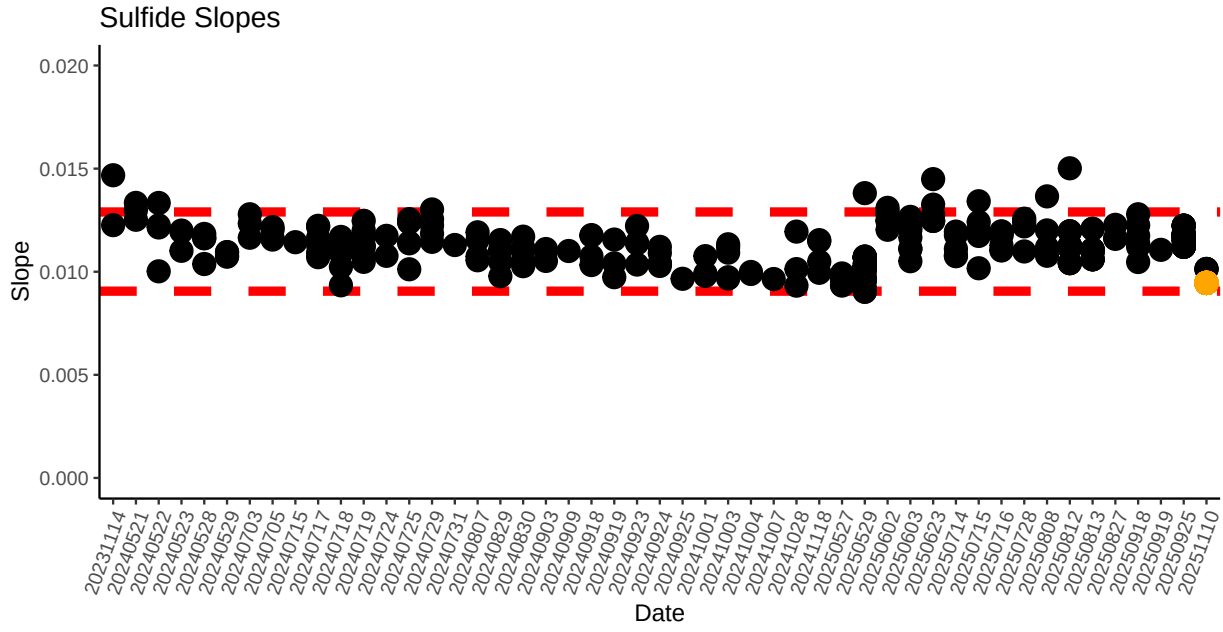
Run Information

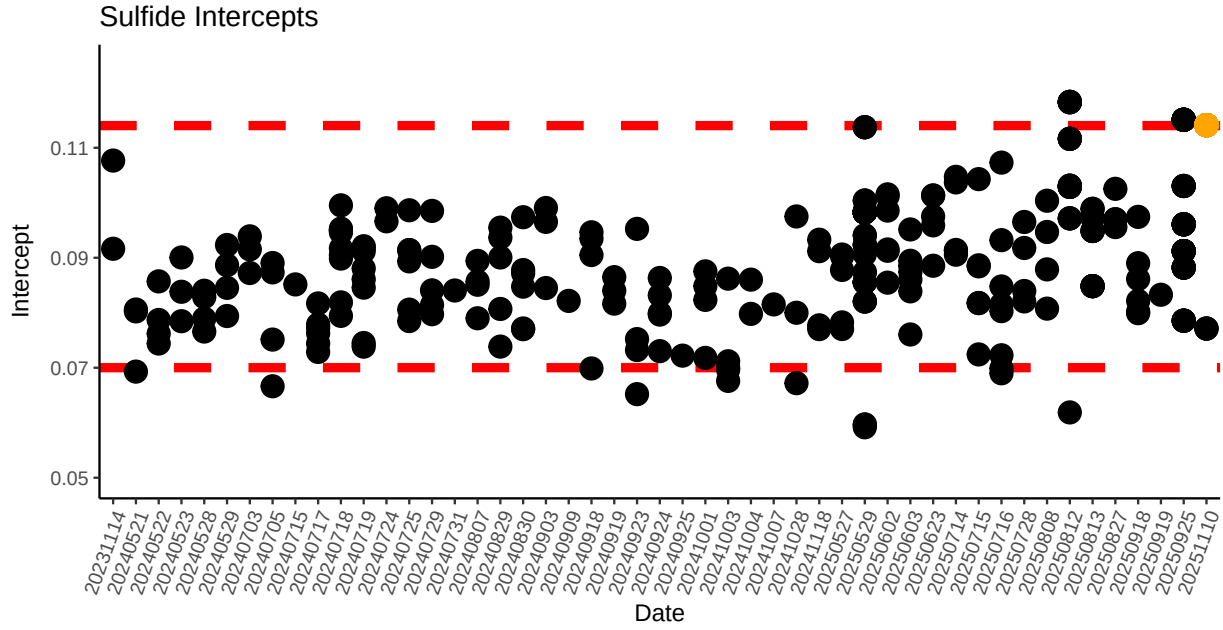
```
###### Run information - PLEASE CHANGE
  Date_Run = "20251110"  #Date that instrument was run
  Plate = "2"
  Month = "Nov"
  Year = "2025"
  Run_by = "Zoe Read"  #Instrument user
  Script_run_by = "Zoe Read" #Code user
  Project = "COMPASS"
  run_notes = "Std Curve r2 is below cutoff: 0.96 (although it was 0.98
  when I checked in the excel file based on averages).
  Std curve intercept is 2 sd different from previous intercepts.
  Samples 23, 31, 34, and 44 still had high CV's after one rep removed.
  Samples 24 and 27 needs to be diluted.
  Spk was low, possibly because it was added a few minutes late.
  50 uL of spike added
  " #any notes from the run

###### STDs to remove manually - NA unless standards have high CVs
  stds_to_remove <- c("F01") #Ex. c("A02", "B02")

  Chkstds_to_remove <- c(NA)

  MCs_to_remove <- c(NA)

##Sample data that was entered incorrectly
  # The Old ID is the original, incorrectly-entered ID and the New ID is the correct ID to change it to.
# Old_ID_1 = "17 Dup"
# New_ID_1 = "16 Dup"
cat(run_notes)
```

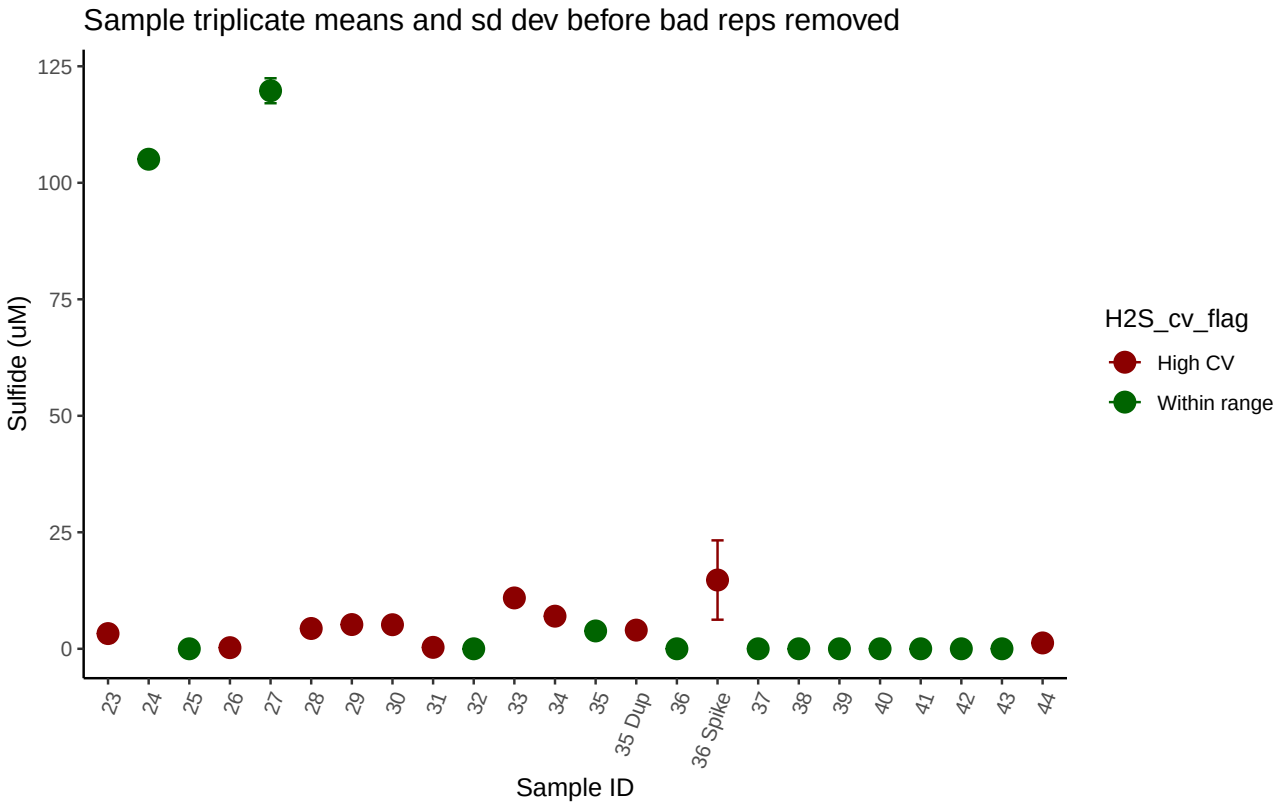
```
## Std Curve r2 is below cutoff: 0.96 (although it was 0.98
##   when I checked in the excel file based on averages).
##   Std curve intercept is 2 sd different from previous intercepts.
##   Samples 23, 31, 34, and 44 still had high CV's after one rep removed.
##   Samples 24 and 27 needs to be diluted.
##   Spk was low, possibly because it was added a few minutes late.
##   50 uL of spike added
##
```

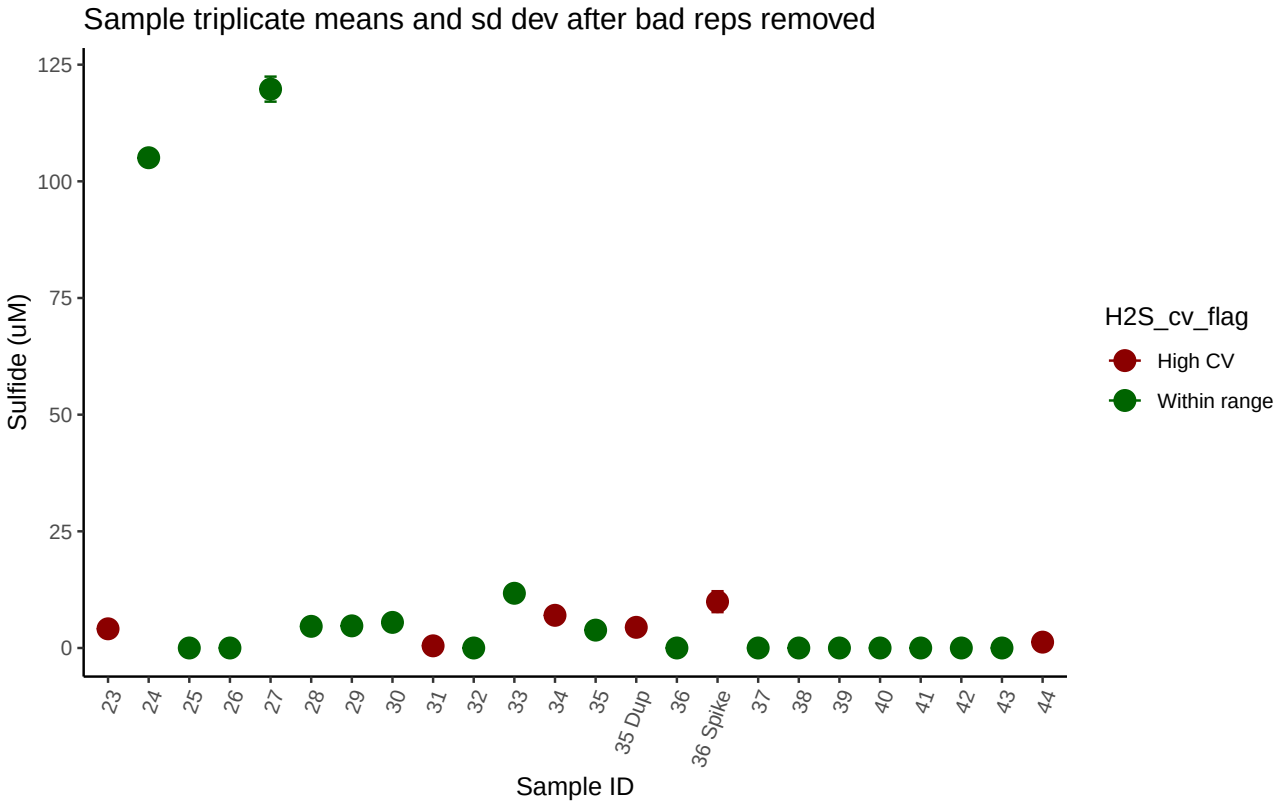
```
## [1] "Std Curve R squared: 0.9604"
```

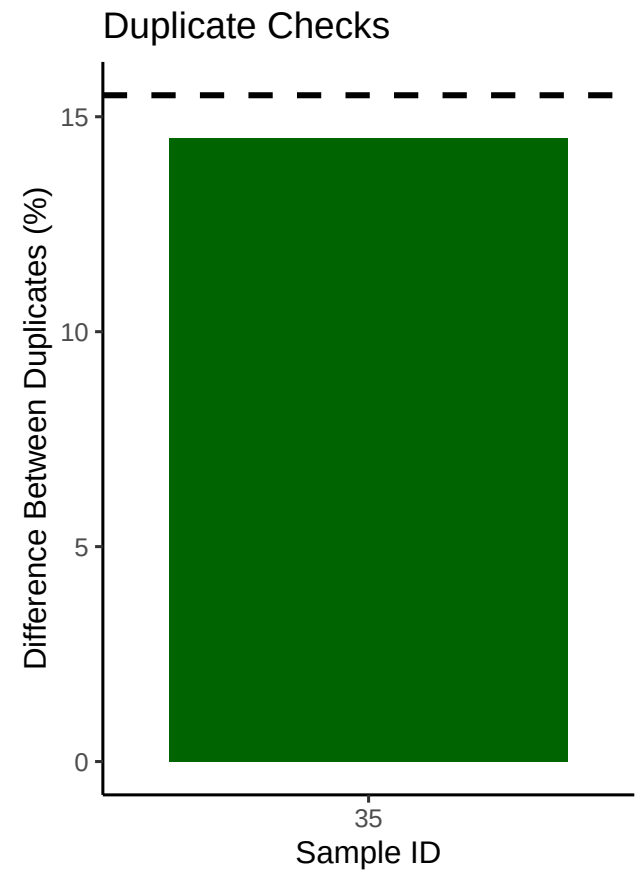

Sulfide Standard Curve
Abs
0.9
0.6
0.3
0
25
50
75
100
Conc

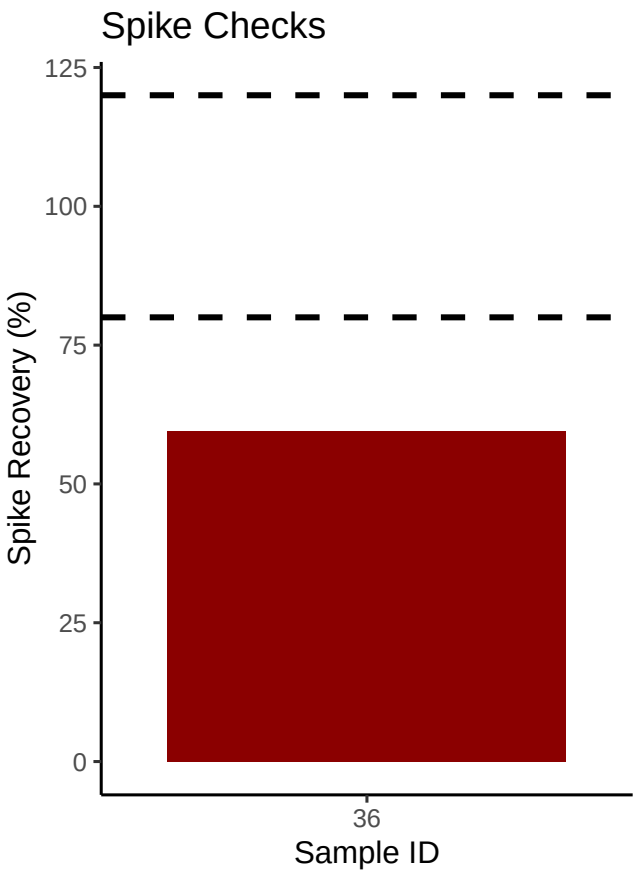

Sulfide Slopes
Slope
0.020
0.015
0.010
0.005
0.000
Date

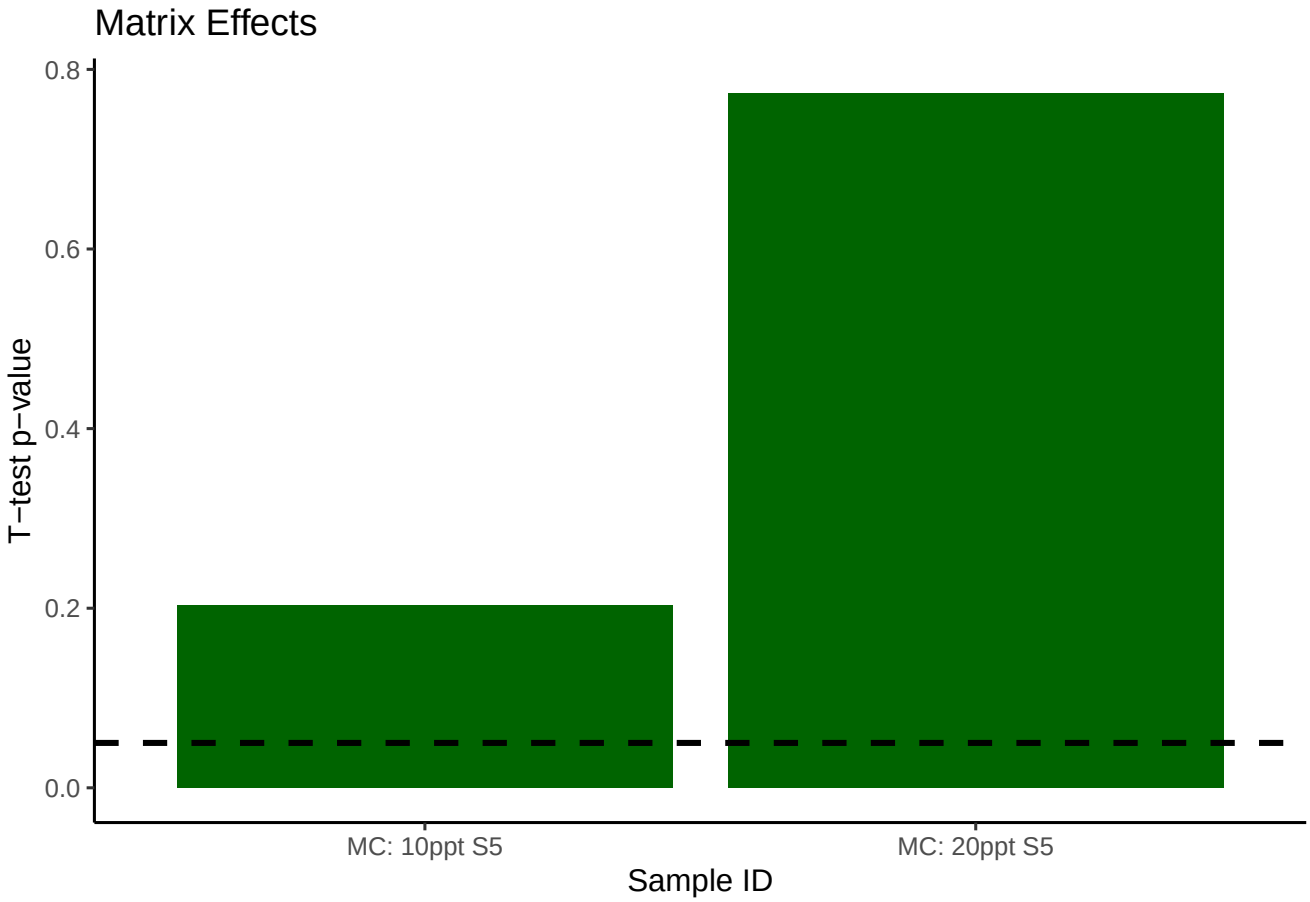

Sulfide Intercepts
Intercept
0.11
0.09
0.07
0.05
Date


Sample triplicate means and sd dev before bad reps removed
Sulfide (uM)
125
100
75
50
25
0
23
24
25
26
27
28
29
30
31
32
33
34
35
35 Dup
36
36 Spike
37
38
39
40
41
42
43
44
Sample ID
H2S_cv_flag
High CV
Within range


Sample triplicate means and sd dev after bad reps removed
Sulfide (uM)
125
100
75
50
25
0
23
24
25
26
27
28
29
30
31
32
33
34
35
35 Dup
36
36 Spike
37
38
39
40
41
42
43
44
Sample ID
H2S_cv_flag
High CV
Within range


Duplicate Checks
Difference Between Duplicates (%)
15
10
5
0
35
Sample ID


Spike Checks
Spike Recovery (%)
125
100
75
50
25
0
36
Sample ID


Matrix Effects
T−test p−value
0.8
0.6
0.4
0.2
0.0
MC: 10ppt S5
MC: 20ppt S5
Sample ID