TEMPEST: Porewater Sulfide

2025 Samples Plate 9

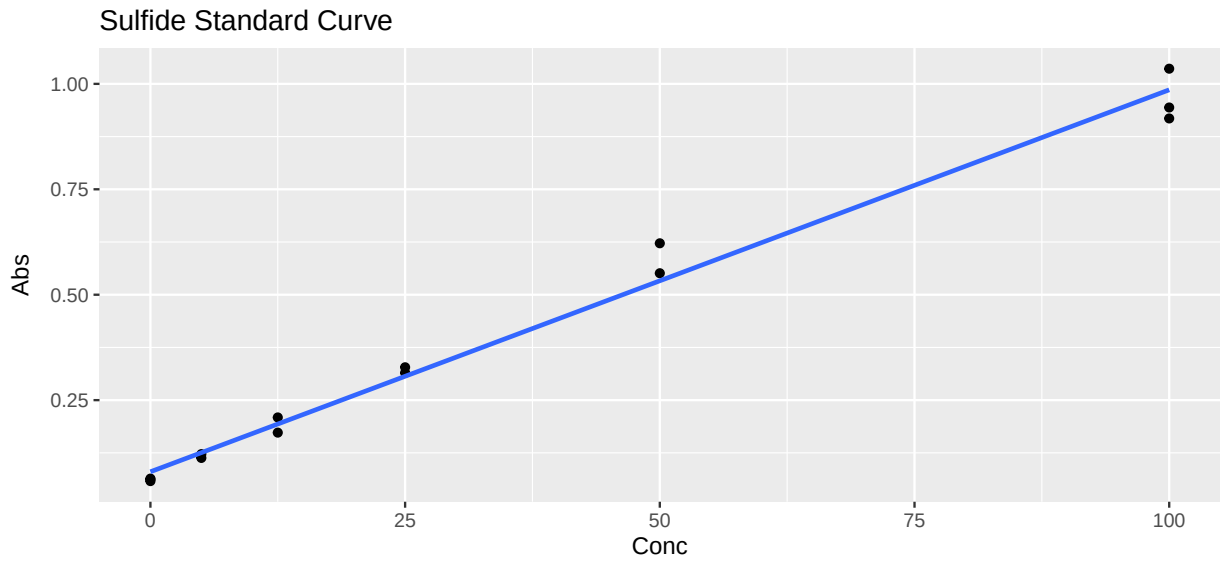
2025-10-30

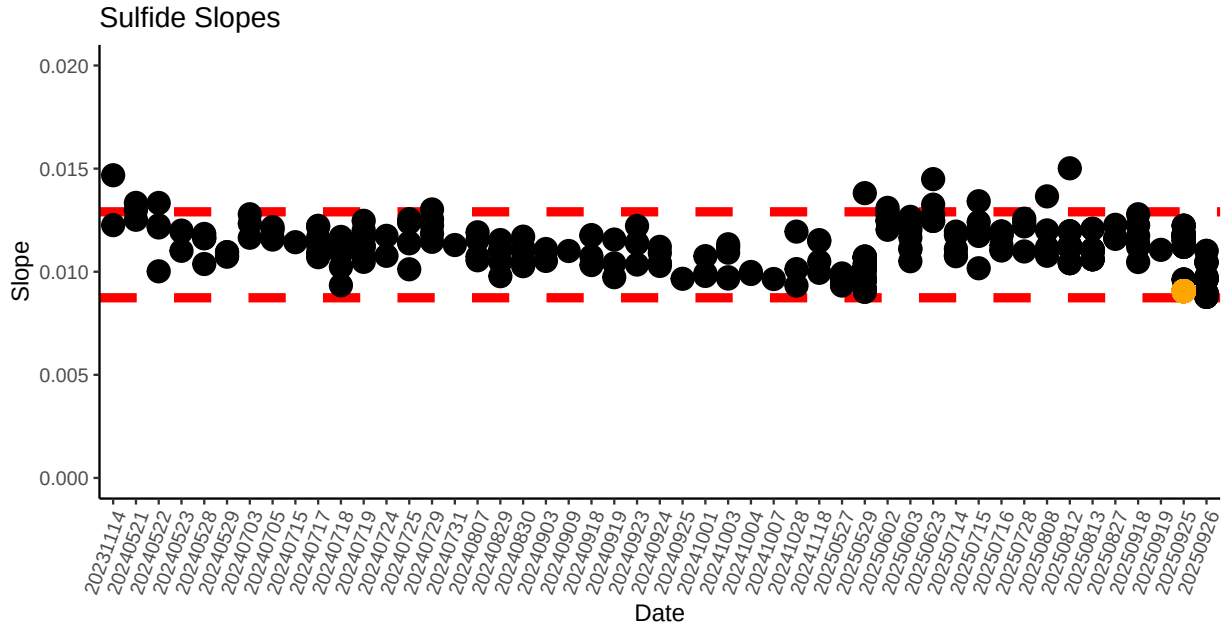
Run Information

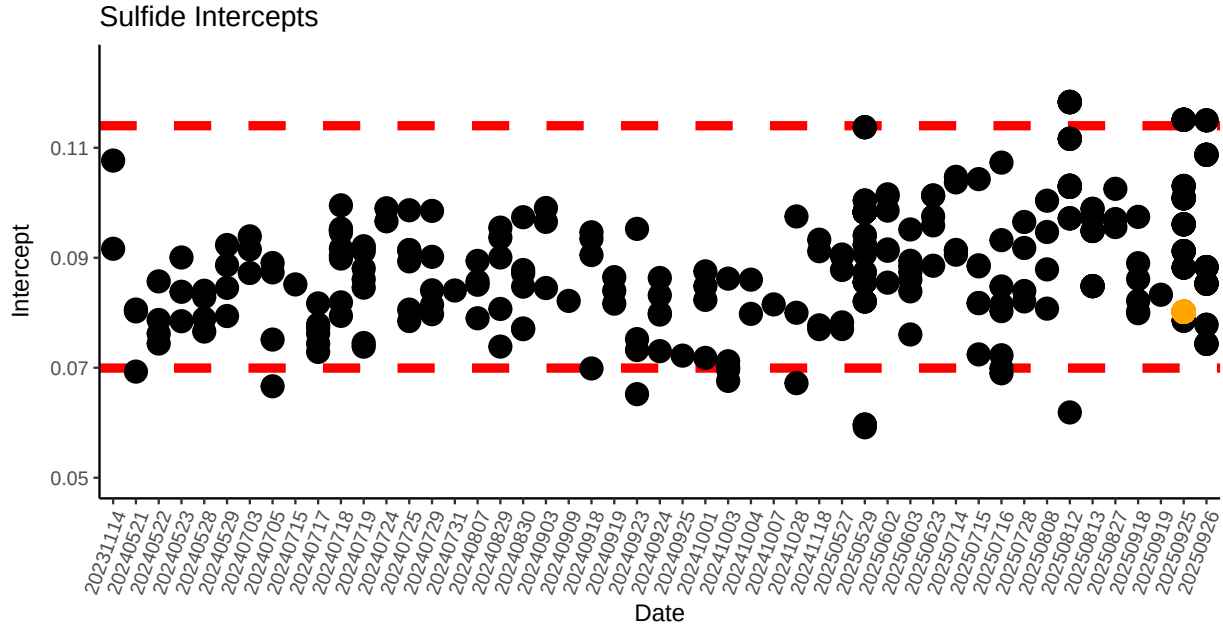
```
###### Run information - PLEASE CHANGE
  Date_Run = "20250925"  #Date that instrument was run
  Plate = "9"
  Year = "2025"
  Run_by = "Steph Wilson and Zoe Read"  #Instrument user
  Script_run_by = "Zoe Read" #Code user
  Project = "TEMPEST"
  run_notes = "Samples 30, 37, 40, 45, 34, 36, and 46 still had high CVs after
  removing one duplicate.
  Duplicate CV was 0.
  " #any notes from the run

###### STDs to remove manually - NA unless standards have high CVs
  stds_to_remove <- c("B02", "C03", "D02", "E02") #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)
```

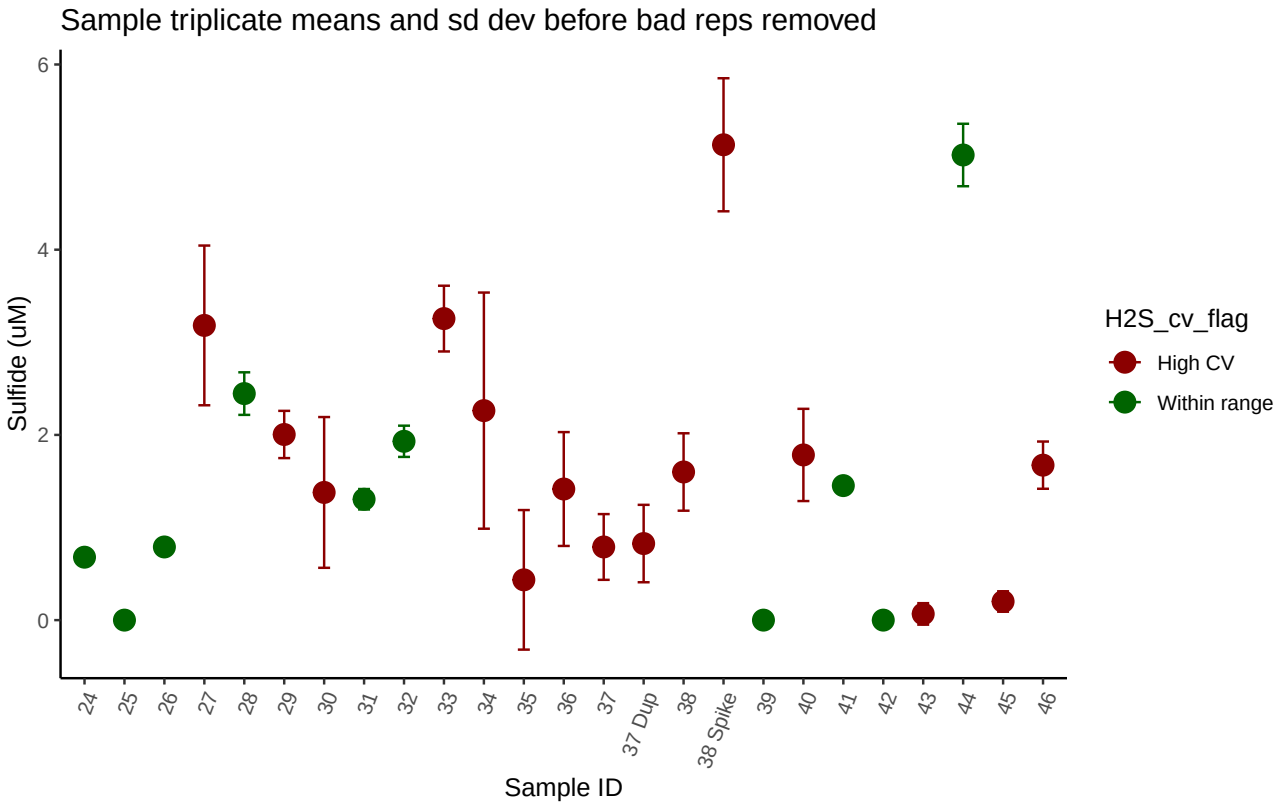
```
## Samples 30, 37, 40, 45, 34, 36, and 46 still had high CVs after
##   removing one duplicate.
##   Duplicate CV was 0.
##
```

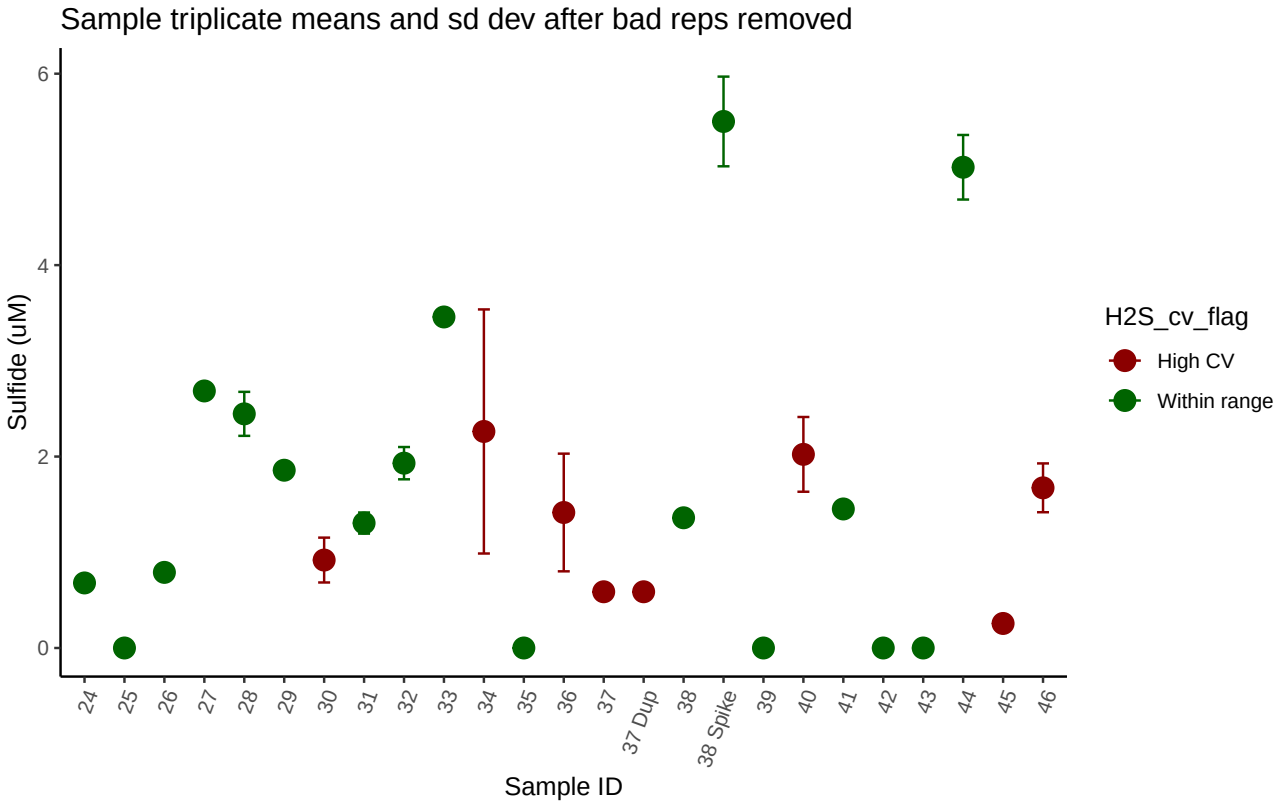
```
## [1] "Std Curve R squared: 0.9871"
```

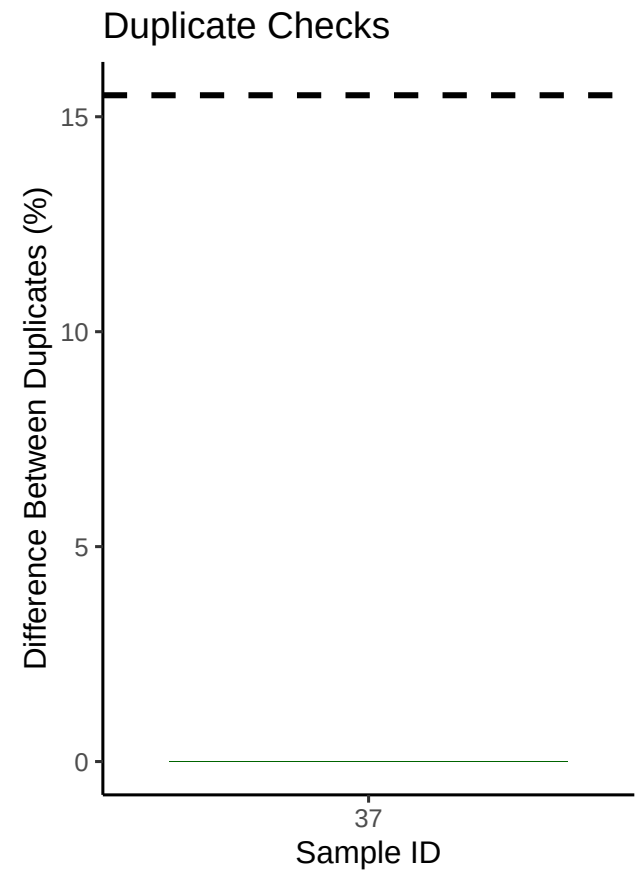

Sulfide Standard Curve
Abs
1.00
0.75
0.50
0.25
0
25
50
75
100
Conc

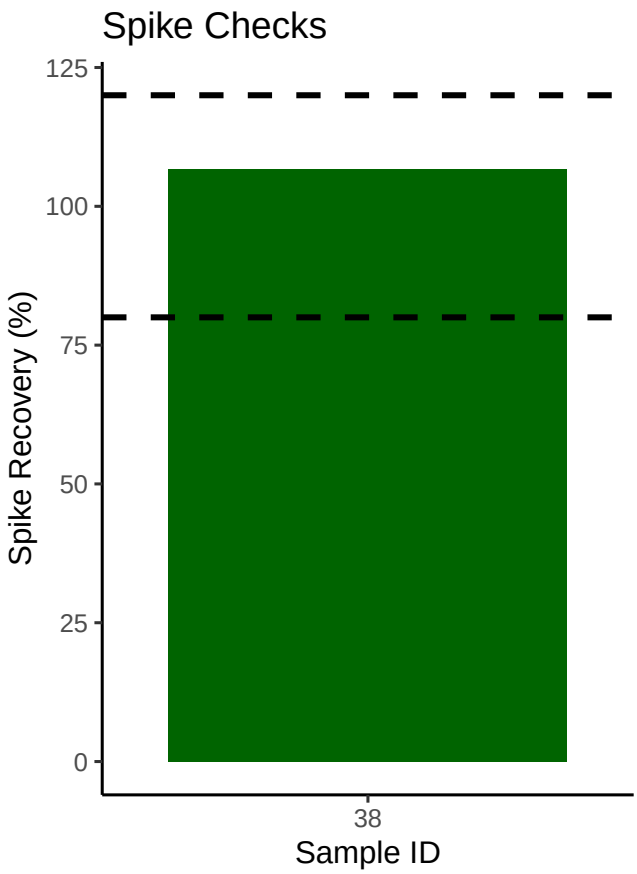

Sulfide Slopes
Slope
0.020
0.015
0.010
0.005
0.000
Date

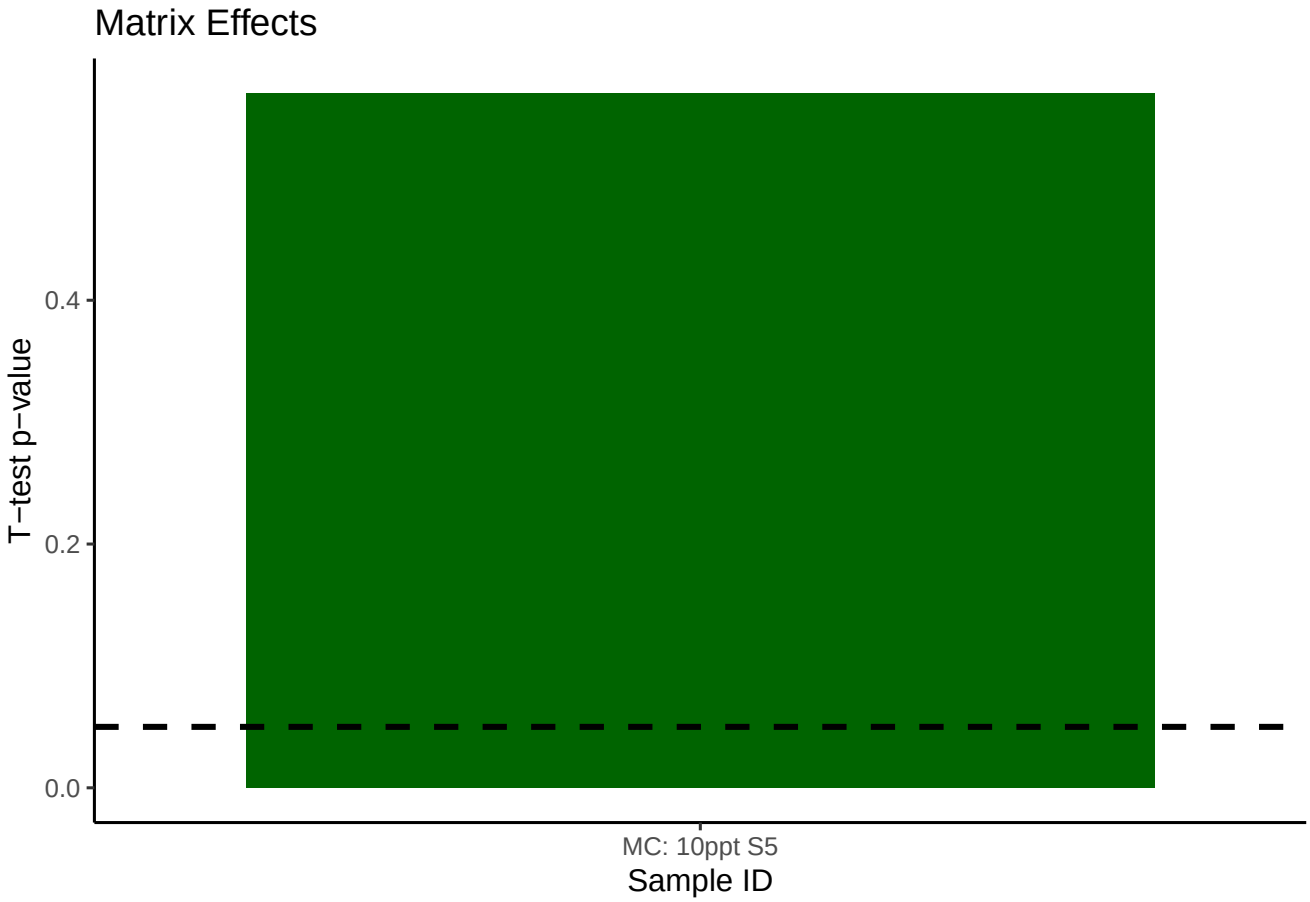

Sulfide Intercepts
Intercept
0.11
0.09
0.07
0.05
Date


Sample triplicate means and sd dev before bad reps removed
Sulfide (uM)
0
2
4
6
24
25
26
27
28
29
30
31
32
33
34
35
36
37
37 Dup
38
38 Spike
39
40
41
42
43
44
45
46
Sample ID
H2S_cv_flag
High CV
Within range


Sample triplicate means and sd dev after bad reps removed
Sulfide (uM)
0
2
4
6
24
25
26
27
28
29
30
31
32
33
34
35
36
37
37 Dup
38
38 Spike
39
40
41
42
43
44
45
46
Sample ID
H2S_cv_flag
High CV
Within range


Duplicate Checks
Difference Between Duplicates (%)
15
10
5
0
37
Sample ID


Spike Checks
Spike Recovery (%)
125
100
75
50
25
0
38
Sample ID


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

```
## All sample IDs are present in metadata.
```